

Location of Construction: 65 Penn Avenue, Portland		Owner: Mulkerin Associates		Phone: 772-2127									
Owner Address: 426 Forest Avenue		Lessee/Buyer's Name:		Phone:	BusinessName:								
Contractor Name: Builders Insulation Co.		Address: 79 Lincoln St. So, Portland		Phone:									
Past Use: Single Family		Proposed Use: Single Family		COST OF WORK: \$ 1900	PERMIT FEE: \$ 30.00								
				FIRE DEPT. <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type:								
Proposed Project Description: Install Gas Fireplace				Signature:	Signature:								
				PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: Approved <input type="checkbox"/> Approved with Conditions: <input type="checkbox"/> Denied <input type="checkbox"/>									
Permit Taken By: SP		Date Applied For: 22 April 1999											
<div style="text-align: center;">1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</div> <div style="text-align: right; margin-top: 20px;">PERMIT ISSUED WITH REQUIREMENTS</div> <div style="text-align: center; margin-top: 20px;">CERTIFICATION I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit 22 April 1999</div> <table border="1" style="width: 100%;"><tr><td>SIGNATURE OF APPLICANT</td><td>ADDRESS:</td><td>DATE:</td><td>PHONE:</td></tr><tr><td colspan="3">RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE</td><td>PHONE:</td></tr></table>						SIGNATURE OF APPLICANT	ADDRESS:	DATE:	PHONE:	RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE			PHONE:
SIGNATURE OF APPLICANT	ADDRESS:	DATE:	PHONE:										
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE			PHONE:										
<div style="float: right; width: 20%;">Permit No: 990373</div> <div style="clear: both;"></div> <div style="border: 2px solid black; padding: 5px; text-align: center; margin: 10px auto; width: fit-content;">PERMIT ISSUED APR 23 1999</div> <div style="margin-top: 10px;">CITY OF PORTLAND Zone: CBL: 40SA-F-01T</div> <div>Zoning Approval: Special Zone or Reviews: <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan maj <input type="checkbox"/> minor <input type="checkbox"/> mm <input type="checkbox"/></div> <div style="margin-top: 10px;">Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied</div> <div style="margin-top: 10px;">Historic Preservation <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review</div> <div>Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved with Conditions <input type="checkbox"/> Denied</div> <div>Date: _____</div>													
<div style="float: right; width: 20%; text-align: center;"><div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; line-height: 40px;">2</div>CEO DISTRICT</div>													

PHONE:

White—Permit Desk Green—Assessor's Canary—D.P.W. Pink—Public File Ivory Card—Inspector

CEO DISTRICT

2

COMMENTS

4/22/99 Rough In on fireplace done -
 Right Model - Clearances ok (10)
 Work Complete - See C/O on permits # 98-1454

Inspection Record

Type	Date
Foundation: _____	_____
Framing: _____	_____
Plumbing: _____	_____
Final: _____	_____
Other: _____	_____

**THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE
PERMIT IS ISSUED**

**Building or Use Permit Pre-Application
Additions/Alterations/Accessory Structures
To Detached Single Family Dwelling**

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTEIf you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.**

Location/Address of Construction: 85 PENN AVE PORTLAND

Tax Assessor's Chart, Block & Lot Number Chart# <u>405A</u> Block# <u>F</u> Lot# <u>011</u>		Owner: <u>MULKERIN ASSOC</u>	Telephone#: <u>772-2127</u>
Owner's Address: <u>426 FOREST AVE PORT</u>		Lessee/Buyer's Name (If Applicable)	Cost Of Work: Fee <u>\$ 1900</u> <u>\$ 30</u>
Proposed Project Description: (Please be as specific as possible) <u>INSTALL GAS FIREPLACE</u>			
Contractor's Name, Address & Telephone <u>LIC # PNT 2334 JEFFREY DONAHUE</u> <u>BUILDERS INSULATION CO INC 79 LINCOLN ST SO. PORT</u>			

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

•All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.

•All plumbing must be conducted in compliance with the State of Maine Plumbing Code.

•All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.

•HVAC(Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must Include the following with you application:

1) A Copy of Your Deed or Purchase and Sale Agreement

2) A Copy of your Construction Contract, if available

3) A Plot Plan (Sample Attached)

If there is expansion to the structure, a complete plot plan (Site Plan) must include:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs, as well as sheds, pools, garages and any other accessory structures.
- Scale and required zoning district setbacks

4) Building Plans (Sample Attached)

A complete set of construction drawings showing all of the following elements of construction:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

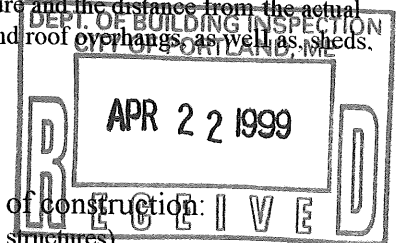
Certification

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: [Signature] Date: _____

Building Permit Fee: \$25.00 for the 1st \$1000. cost plus \$5.00 per \$1,000.00 construction cost thereafter.

0:\INSP\CORRESP\MNUGENT\APADSD.VXD



Inspection Services
Michael J. Nugent
Manager



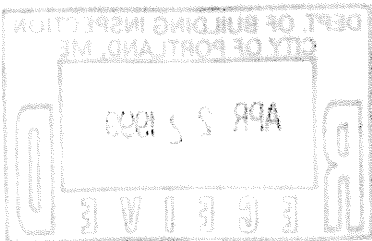
Department of Urban Development
Joseph E. Gray, Jr.
Director

CITY OF PORTLAND

Congratulations !!!!!

**Building or Use Permit Application
Additions/Alterations/Accessory Structures
To Detached Single Family Dwelling**

As an applicant for a building permit, you are about to enter into a relationship with our Office. We welcome any questions, comments or suggestions that will make the process more efficient. Attached you will find an application and some samples of the submissions you will provide at application time. Please read **ALL** of the information and if you need any further assistance please call 874-8703 or 874-8693.



BUILDING PERMIT REPORT

DATE: 23 APRIL 99 ADDRESS: 85 Penn Ave. CBL: 405A-F-011
REASON FOR PERMIT: Install Gas Fireplace
BUILDING OWNER: MuLkerin ASSOC.
PERMIT APPLICANT: _____ / Contractor Builders Insulation Co.
USE GROUP R-3 BOCA 1996 CONSTRUCTION TYPE 53

CONDITION(S) OF APPROVAL

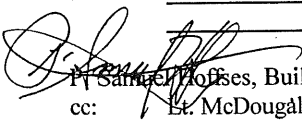
This permit is being issued with the understanding that the following conditions are met:

Approved with the following conditions: *1, *9, *27 *34

- ☒ 1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection)
3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2
4. Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' o.c. between bolts. (Section 2305.17)
5. Waterproofing and damp proofing shall be done in accordance with Section 1813.0 of the building code.
6. Precaution must be taken to protect concrete from freezing. Section 1908.0
7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of 1/2 inch gypsum board or the equivalent applied to the garage means of 1/2 inch gypsum board or the equivalent applied to the garage side. (Chapter 4, Section 407.0 of the BOCA/1996)
- ☒ 9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211
10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2, M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 3e4" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2". (Sections 1021 & 1022.0) - Handrails shall be on both sides of stairway. (Section 1014.7)
12. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)
13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 1/4" maximum rise. All other Use Group minimum 11" tread, 7" maximum rise. (Section 1014.0)
14. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8") 1014.4
15. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft. (Section 1018.6)
16. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. (Section 1010.1)
17. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.) (Section 710.0)

18. The boiler shall be protected by enclosing with (1)hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment. (Table 302.1.1)
19. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):
- In the immediate vicinity of bedrooms
 - In all bedrooms
 - In each story within a dwelling unit, including basements
- In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required) Section 920.3.2.
20. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. (Section 921.0)
21. The Fire Alarm System shall maintained to NFPA #72 Standard.
22. The Sprinkler System shall maintained to NFPA #13 Standard.
23. All exit signs, lights and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023.0 & 1024.0 of the City's Building Code. (The BOCA National Building Code/1996)
24. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
25. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification the Division of Inspection Services.
26. Ventilation shall meet the requirements of Chapter 12 Sections 1210.0 of the City's Building Code. (Crawl spaces & attics).
- *27. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade. **No closing in of walls until all electrical** (min. 72 hours notice) **and plumbing inspections have been done.**
28. All requirements must be met before a final Certificate of Occupancy is issued.
29. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code (the BOCA National Building Code/1996).
30. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National Mechanical Code/1993). (Chapter M-16)
31. Please read and implement the attached Land Use Zoning report requirements.
32. Boring, cutting and notching shall be done in accordance with Sections 2305.4.4, 2305.5.1 and 2305.5.3 of the City's Building Code.
33. Glass and glazing shall meet the requirements of Chapter 24 of the building code.
34. *This permit is being issued with the understanding that the appliance will be installed as per the manufactures requirements.*
- 35.

36.

cc:  Lt. McDougall, PFD

Marge Schmuckal, Zoning Administrator

PSH 12-14-98

****On the basis of plans submitted and conditions placed on these plans any deviations shall require a separate approval.**



*The Symbol of
Excellence*

2701 South Harbor Blvd.
Santa Ana, California 92704
(714) 549-7782
Fax No. (714) 549-4723

TO THE OWNER OF A NEW FMI FACTORY-BUILT FIREPLACE

You or your builder probably chose FMI over the other makes of fireplaces because of the great appearance and exceptional features that FMI offers.

What you don't see when you look at our line of fireplaces are the people who manufacture that quality into each fireplace and the service that FMI offers nationwide and in various international markets.

Each model that we manufacture has been tested and listed with either Underwriters Laboratories (U.L.), Warnock-Hersey, A.G.A., or C.G.A. and meets or exceeds their stringent standards. This is all done with your safety in mind.

Every model that FMI manufactures has been design-engineered to provide you with the most comfort possible. FMI designs fireplaces with the largest viewing area, including enhanced efficiency, while still retaining the look and feel of the traditional masonry fireplace.

We at FMI understand that we are not perfect; so if you do require service on your FMI fireplace, please don't hesitate to write us. We will do everything possible to solve the problem.

Sincerely,

FIREPLACE MANUFACTURERS, INC.

Willard P. Harris
President/Chief Executive Officer

To connect the flue vent and vent termination the following steps are recommended.

- 1) Install flex pipe to fireplace collar located on back of the unit at a 45 degree angle. Start with 4 inch pipe by sliding it over 3 7/8" starting collar on fireplace. Fasten pipe with 4" pipe clamp provided as shown in **Figure 2**.
- 2) Once the pipe is properly fastened to the fireplace collar, continue to install spacer springs provided.
- 3) Install spacer springs by stretching the spring around the 4 inch pipe and looping it at the ends as shown in **Figure 3**.
- 4) With spacer springs in place, continue connecting the 7 inch pipe to the outer collar on back of unit by sliding the entire 7 inch pipe over 4 inch pipe with springs in place as shown in **Figure 3**.
- 5) After steps 1,2, and 3 are completed, the vent termination is to be installed as shown in **Figure 4**.
- 6) Depending on wall thickness, allow 1 inch to protrude from internal wall for pipe clamp installation. You may cut vent termination pipes to accommodate your particular installation and wall thickness. Avoid stucco on vent termination. The vent termination must be removable for service and pipe inspection. Use vent spacer when stucco or siding is present as shown in **Figure 4**.

The vent system serves as the "chimney" as well as the combustion air supply (air intake). The horizontal run must be leveled or have a rise of 1/4 inch every 2 feet of horizontal run. The maximum horizontal run depends on vertical the fireplace adapter collars to the vent termination.

CLEARANCES FOR VENT PIPE
The vent pipe must have a minimum of 1 inch clearance to combustible material all around the entire pipe.

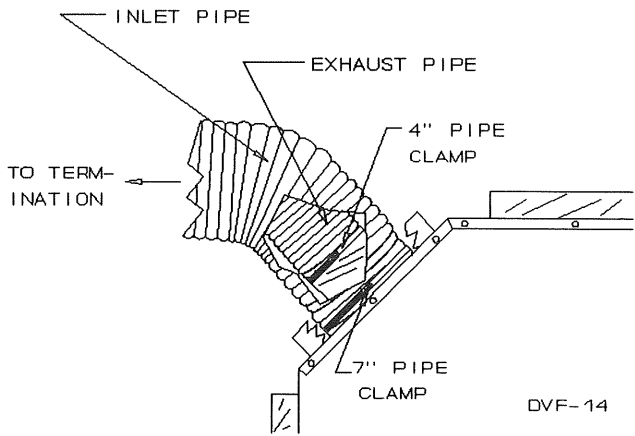


Figure 2

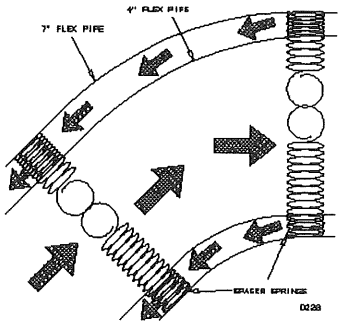


Figure 3

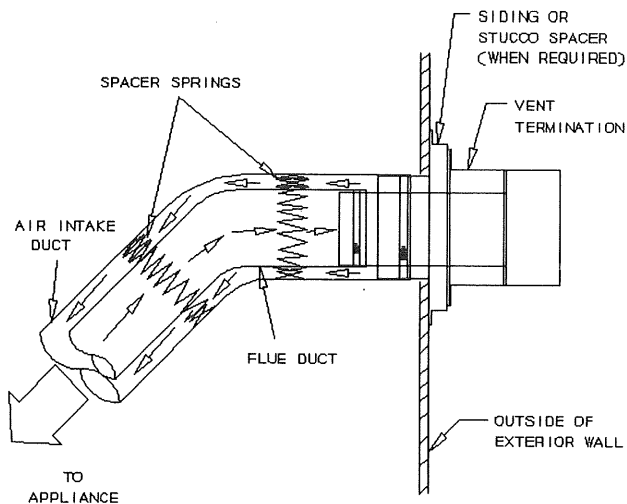


Figure 4

INSTALLATION FOR EXTENDED FLEX PIPE

* When installing lengths of flex pipe over 3 feet, it is recommended to support the pipe in 3 foot intervals using metal straps used for air conditioning ducts. This will prevent any damage to the pipes.

- 1) Vertical pipe to horizontal pipe must be kept at a 1 foot to 3 feet ratio (See chart below).

VERTICAL		HORIZONTAL	
MIN.	1'	TO	3' MAX.
	2'	TO	6'
	3'	TO	9'
	4'	TO	12'
	5'	TO	15'
	6'	TO	14'
	7'	TO	13'
	8'	TO	12'

* All above dimensions are based from the bottom of the fireplace's outer pipe (See **Figure 5**).

- 2) Refer to **Figure 5** for spacer springs installation.
- 3) Spacer springs must be installed every 4 feet to prevent the inner exhaust pipe from making contact with the inlet air pipe. Two springs are required when any type of bend is made in the installation.
- 4) Elbow bend must have one spring on each side of the bend as shown in **Figure 5**.

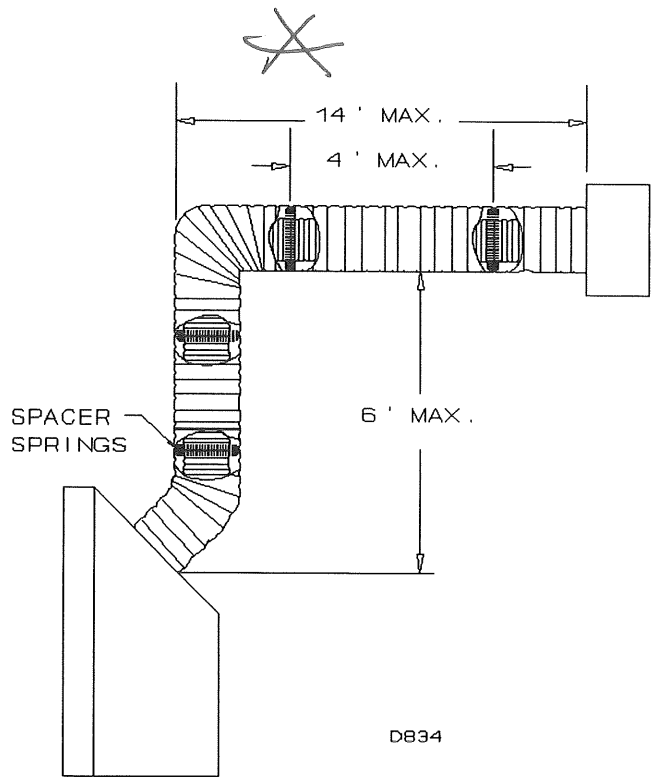


Figure 5

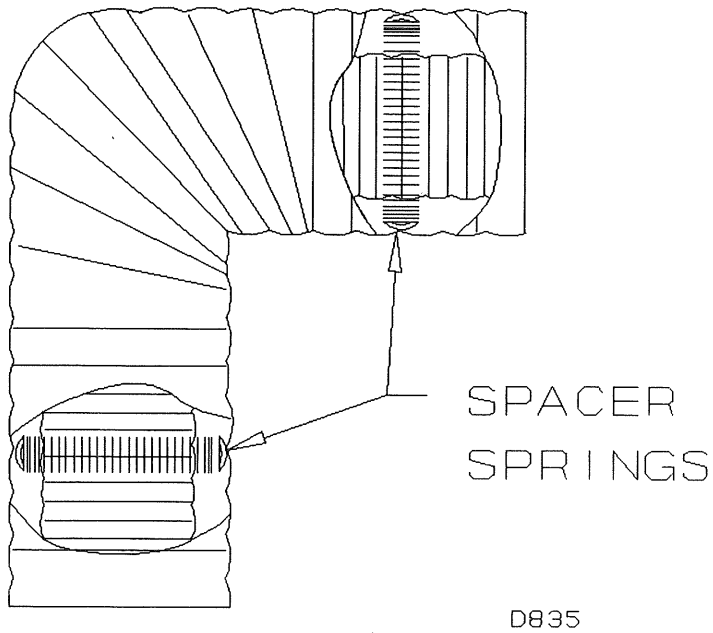
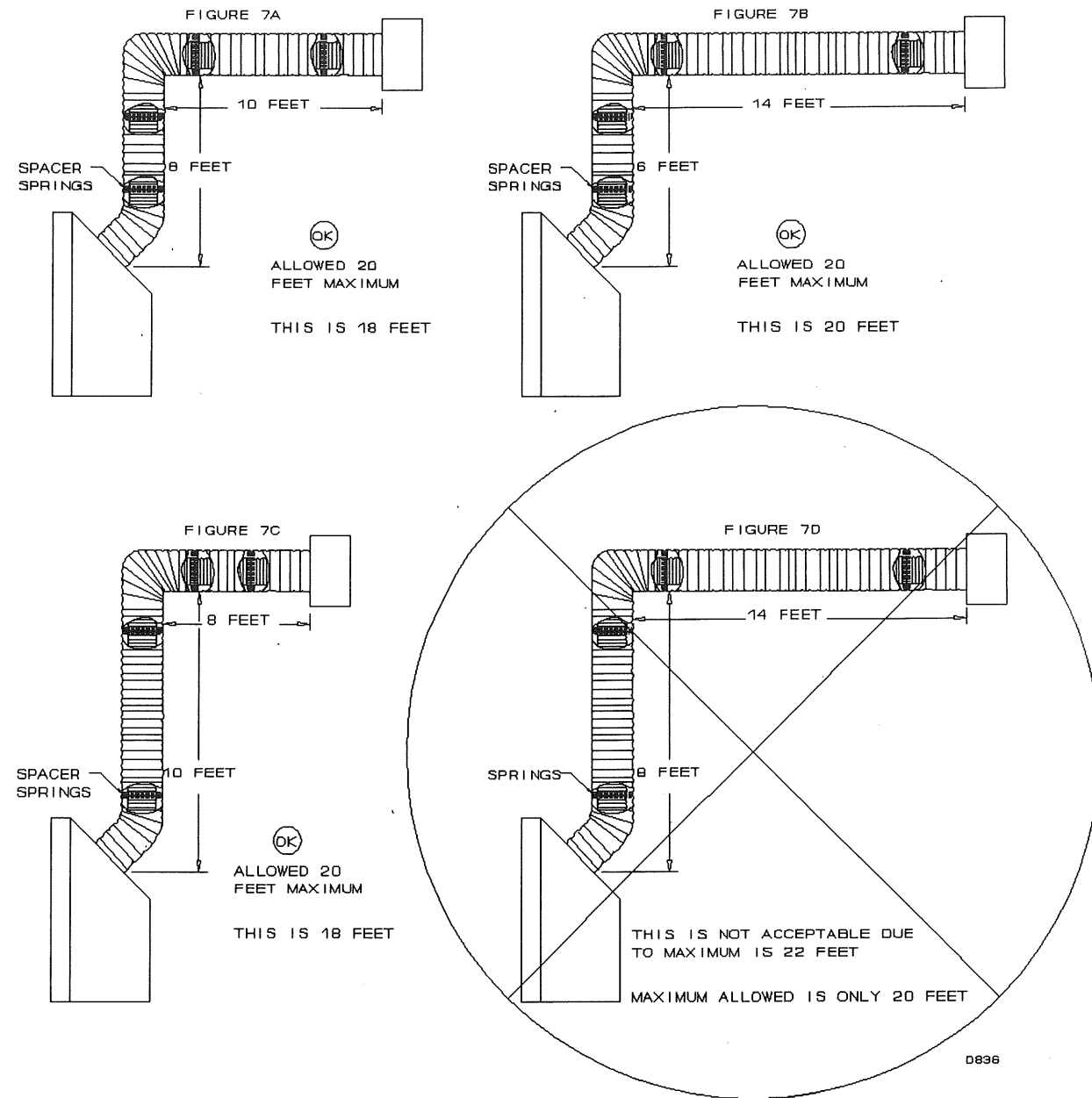


Figure 6

P/N for 4" x 20' flex pipe = 13426
P/N for 7" x 20' flex pipe = 13427

INSTALLATION EXAMPLES FOR EXTENDED FLEX PIPE

This are examples of common installations and allowed flex pipe lengths of vertical and horizontal pipe.



INSTALLATION INSTRUCTIONS FOR DVF-K and EXTENDED FLEX VENT PIPE

(FOR USE WITH DVF 30 & 36 /P)

VENT PIPE & TERMINATION CLEARANCES & INSTRUCTIONS

The final position of your appliance depends on the location of the termination in relation to the clearances that must be observed as shown in **Figure 1**.

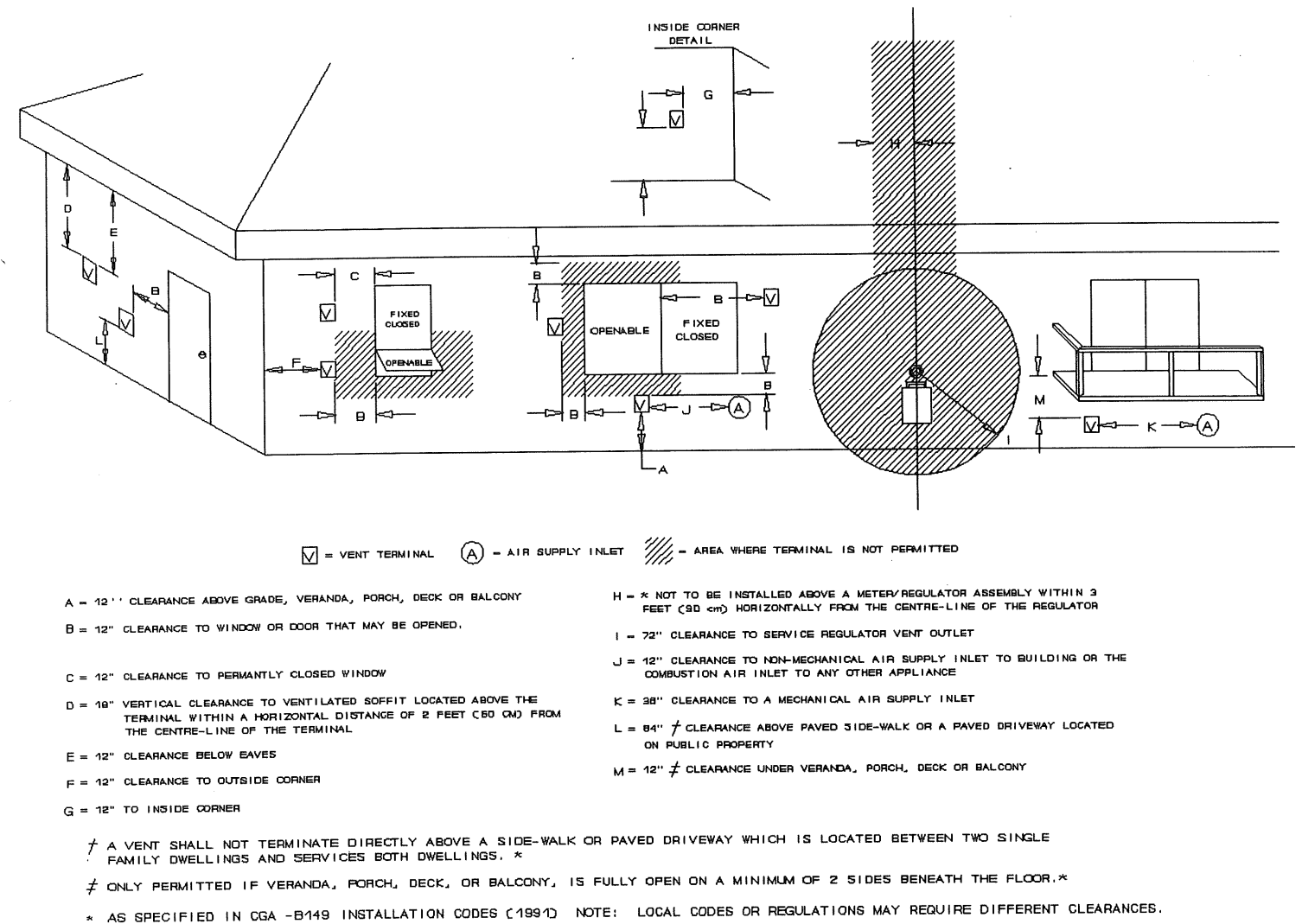


Figure 1

Use only pipe that is supplied with the appliance. Maintain minimum clearances or greater.
Do not fill air space with insulation or other materials.

FIREPLACE MANUFACTURERS, INC.
GAS APPLIANCE
LIMITED 2 YEAR WARRANTY

THE WARRANTY

Fireplace Manufacturers, Inc., (hereafter referred to as FMI), warrants the FMI Gas Appliance to be free from defects in materials and workmanship at the time of manufacture.

REMEDY AND EXCLUSIONS

The coverage of this Warranty is limited to all components of the gas appliance manufactured by FMI, with the exception of glass and refractory. The glass is warranted for 90 days. There will be no cost for replacement of glass within 90 days of installation, provided that breakage is due to heat from the appliance. We do not warranty breakage occurring during installation or transportation.

If the decorative gas appliance covered by this Warranty is found to be defective within one year from the date of installation, FMI will, at its option, replace or repair defective components of the decorative gas appliance manufactured by FMI at no charge, or will pay for reasonable costs incurred in replacing or repairing such components. These charges should be pre-approved by FMI before any work is done. During the second year of the Warranty, FMI shall supply replacement parts, if readily available, at the current minimum wholesale price. FMI will not be responsible for any other expense.

REFRACTORY WARRANTY (IF APPLICABLE)

FIRST YEAR FMI warrants the refractory (except for hairline cracks less than 1/16" in width), one year from the date of manufacture to be free from defect in material and workmanship. If the original owner of an FMI fireplace believes that any of the refractory parts have failed during the above one year period, he/she should notify the nearest (FMI) distributor or dealer. FMI will pay for the refractory replacement and reasonable labor charges. FMI will be responsible for the freight charges.

SECOND YEAR FMI will supply refractory replacement parts at the current list price that is in effect at time of replacement. FMI will assume no responsibility for any labor or freight charges incurred.

This Warranty covers only parts and labor as provided above. In no case shall FMI be responsible for materials, components, or construction which are not manufactured or supplied by FMI. FMI will not be responsible for any labor charges to remove such materials, components, or construction. All replacement parts will be shipped F.O.B., Santa Ana, to purchasers' address or the nearest FMI distributor.

QUALIFICATIONS TO THE WARRANTY

The decorative gas appliance Warranty outlined above is further subject to the following qualifications:

1. The gas appliance must be installed as per the FMI installation instructions and local building codes. The use of components manufactured by others with this FMI gas appliance, (except for the Type B venting system as outlined in the installation instructions, if applicable), could create serious safety hazards, may result in denial of certification by recognized national safety agencies, and could be in violation of local building codes. This Warranty does not cover any damages occurring from the use of any components not manufactured or supplied by FMI.

2. THE FMI APPLIANCE MUST BE SUBJECTED TO NORMAL USE. THE DECORATIVE GAS APPLIANCES ARE DESIGNED TO BURN EITHER NATURAL OR PROPANE GAS ONLY. BURNING CONVENTIONAL FIREPLACE FUELS SUCH AS WOOD, COAL, OR ANY OTHER SOLID FUEL WILL CAUSE DAMAGE TO THE DECORATIVE GAS APPLIANCE, WILL PRODUCE EXCESSIVE TEMPERATURES, AND WILL RESULT IN A FIRE HAZARD.

LIMITATION OF LIABILITY

It is expressly understood that FMI's sole obligation and purchaser's exclusive remedy under this Warranty, expressed or implied, or in contract, tort, or otherwise, shall be limited to replacement or repair as specified above. In no event shall FMI be responsible for any incidental or consequential damages caused by defects in its products, whether such damage occurs or is discovered before or after replacement or repair, and whether or not such damage is caused by FMI's negligence. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The duration of any implied warranty with respect to this FMI decorative gas appliance is limited to the duration of the foregoing Warranty.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

FMI reserves the right to investigate any and all claims against this Warranty and to decide upon method of settlement.

FMI IS NOT RESPONSIBLE FOR WORK DONE WITHOUT WRITTEN CONSENT

FMI shall in no event be responsible for any warranty work done without first obtaining FMI's written consent.

HOW TO REGISTER A CLAIM AGAINST WARRANTY

A (FMI) dealer or distributor should be contacted directly by the owner for any service, including service under these warranties. The repair and replacement of any defective part covered by these warranties is the responsibility of the nearest (FMI) dealer or distributor.

OTHER RIGHTS

This Warranty gives you specific rights, and you may also have other rights which vary from State to State.

THESE WARRANTIES ARE GIVEN IN LIEU OF ANY OTHER EXPRESSED WARRANTIES. FIREPLACE MANUFACTURERS, INC. (FMI) DOES NOT AUTHORIZE ANY PERSON OR REPRESENTATIVE TO MAKE REPRESENTATIONS TO THE CONTRARY IN CONNECTION WITH THE SALE OF A DECORATIVE GAS APPLIANCE.

Fireplace Manufacturers Incorporated
2701 South Harbor Blvd., Santa Ana, Ca. 92704

P/N 55276
12/96 ECN2288



**Fireplace
Manufacturers
Incorporated**

*The Symbol of
Excellence*

Save bookLEt.

8 - 4637

Executive Series

DVF36/P

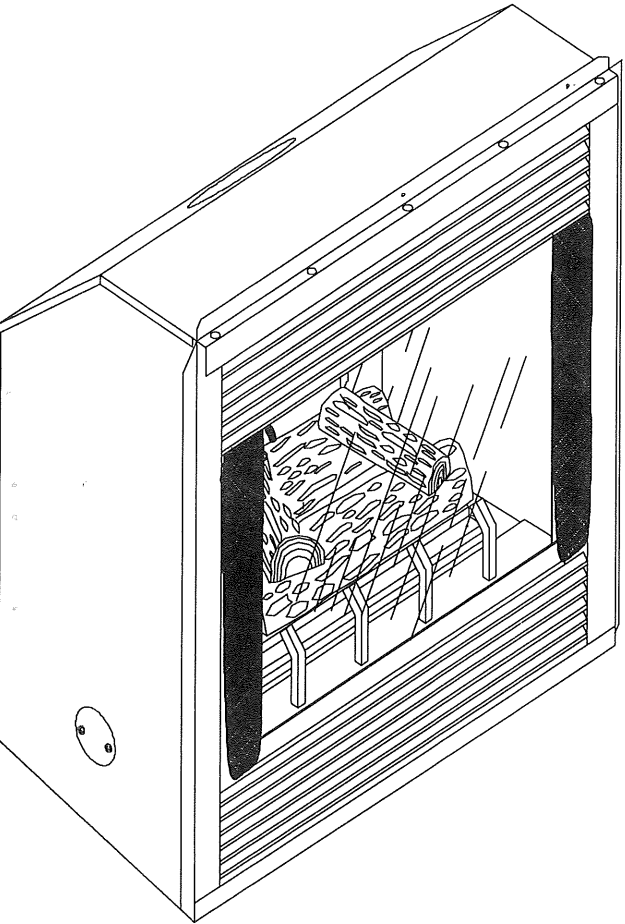
DVF36T/TP (Tempered Glass)

GRAVITY DIRECT VENT WALL FURNACE

INSTALLATION INSTRUCTIONS

SAVE THIS BOOK

This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or optional accessory items when needed. Keep it with your other important papers.



WARNING : THE GRAVITY DIRECT VENT WALL FURNACE SERIES IS INTENDED FOR USE WITH NATURAL OR PROPANE GAS ONLY ! (DEPENDING ON THE TYPE OF GAS YOUR PARTICULAR MODEL IS APPROVED FOR.) DO NOT ATTEMPT TO BURN ANY SOLID FUELS IN THESE APPLIANCES.

FOR YOUR SAFETY

- Do not store or use gasoline or any other flammable vapors or liquids in the vicinity of this or any other appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Do not place clothing or other flammable materials on or near the appliance.
- NEVER leave children unattended when a fire is burning in the appliance.

FOR YOUR SAFETY

WHAT TO DO IF YOU SMELL GAS :

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or the gas supplier.

**CHECK LOCAL CODES PRIOR TO
INSTALLATION**



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2. SELECTING LOCATION.....PG. 2

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23 WARRANTY..... (BACK COVER)

PARTS LIST

PART #	DESCRIPTION	CARTON QTY.
01804	Horizontal Round Termination Kit. Round term - Wall Firestop,45 degree elbow (thru 5" wall)	1 per
01805	Horizontal Square termination Kit.Square Term.- Wall firestop, 45 degree elbow (thru 5" wall)	1 per
01806	Basic Vertical Kit. Adjustable Flashing -storm collar cap	1 per
01830	Horizontal Round retro kit Round term.- Wall firestop,45 degree retro elbow (thru 5" wall)	1 per
01807	48" pipe length	6 per
01808	36" pipe length	6 per
01809	24" pipe length	6 per
01810	12" pipe length	6 per
01811	6" pipe length	6 per
01812	17" to 24" adjustable pipe length	6 per
01813	45 degree elbow	6 per
01814	90 degree elbow	6 per
01817	Wall firestop.	6 per
01818	Adjustable Flashing (0/12-8/12).	6 per
01819	Steep pitch Flashing(12/12).	1 per
01820	Vinyl siding Standoff	6 per
01821	Firestop plate	1 per
01822	Vertical cap	1 per
01823	Horizontal round termination cap	1 per
01824	Horizontal Square termination cap	1 per
01825	36" Snorkel termination	1 per
01826	14" Snorkel termination	1 per
01827	Termination/high rise/horizontal	6 per
01828	Wall Strap	6 per
01829	Storm collar	6 per
01815	45 degree twist lock connect/retro	6 per
01816	Twist lock to flex retro connect	6 per

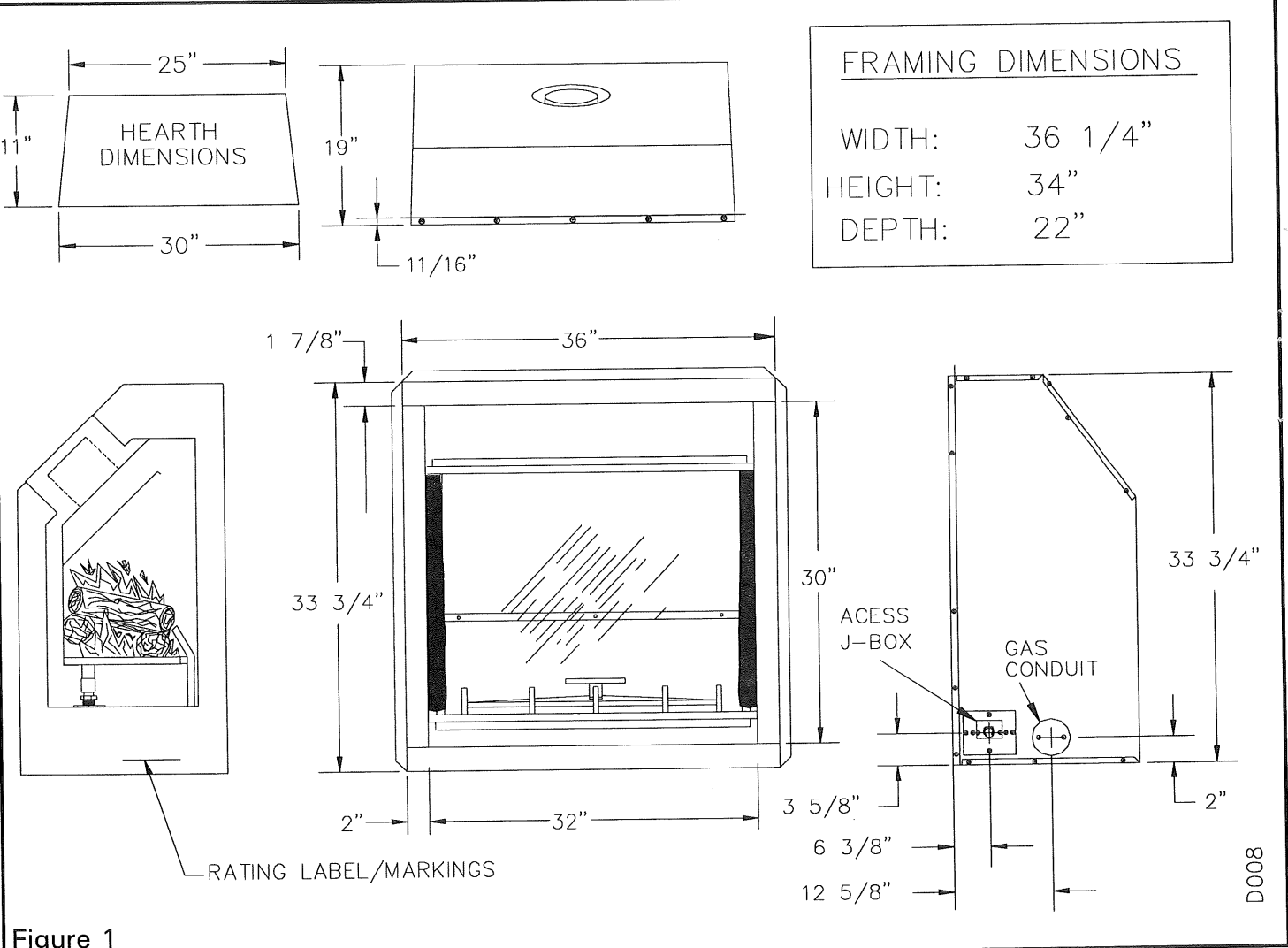


Figure 1

NOTE : ALL DIMENSIONS IN THIS INSTALLATION MANUAL ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

- 5) For vertical termination a roof flashing is require for proper installation **see figure 7.**
- 6) Refer to following chart for clearance between roof to termination bottom.

TYPICAL VERTICAL INSTALLATION

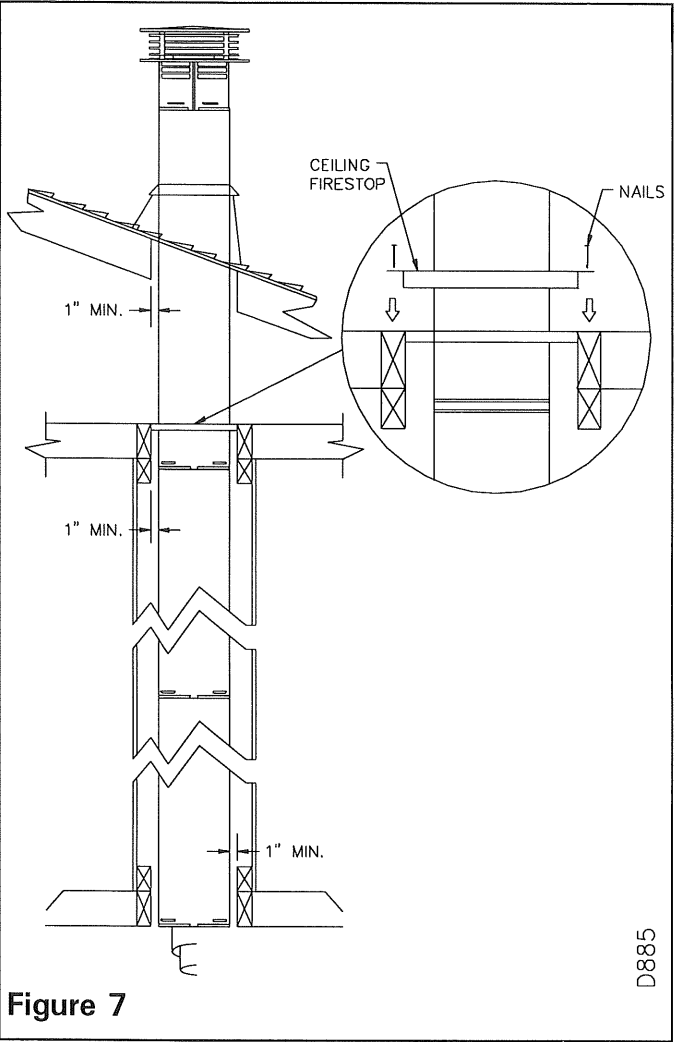


Figure 7

ROOF PITCH	MINIMUM HEIGHT FEET
Flat to 7/12	1
Over 7/12 to 8/12	1.5
Over 8/12 to 9/12	2
Over 9/12 to 10/12	2.5
Over 10/12 to 11/12	4
Over 12/12 to 14/12	5
Over 14/12 to 16/12	6
Over 16/12 to 18/12	7
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12	8

TYPICAL VERTICAL INSTALLATION WITH OFFSET.

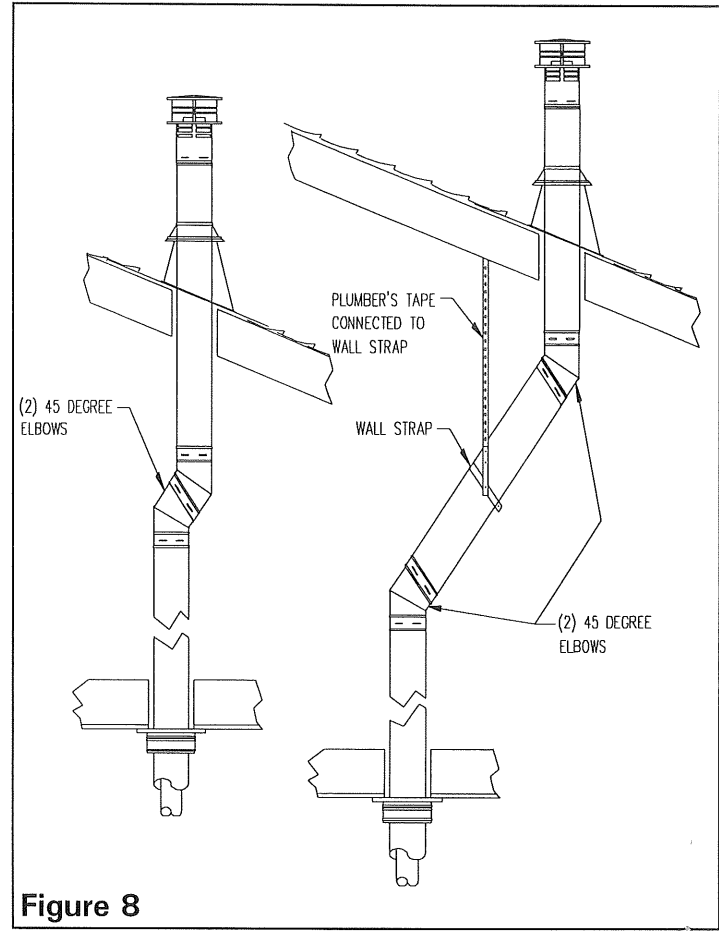


Figure 8

SAFETY PRECAUTIONS FOR THE INSTALLER

- * Wear gloves and safety glasses for protection.
- * Exercise extreme caution when using ladders or on roof tops.
- * Be aware of electrical wiring located in walls and ceiling.

PARTS LIST

All components and parts must be ordered through F.M.I by their proper kit number

See next page for complete list.

INTRODUCTION

Model DVF-36 series is a heat circulating gravity direct vent wall furnace with a sealed combustion chamber that uses a **MILLIVOLT GAS CONTROL VALVE** and a **MILLIVOLT IGNITION SYSTEM.**

The system requires a **unique termination** which includes transition pipes and must be installed prior to operation. A **FAN KIT** is available for this model as an option.

CHECK LOCAL BUILDING CODES FOR AREA REQUIREMENTS BEFORE INSTALLING THIS APPLIANCE.

- * Model DVF-36 or DVF-36T uses **NATURAL GAS ONLY.**
- * Model DVF-36P or DVF-36TP uses **PROPANE GAS ONLY.**

If you have any doubts as to which gas your particular appliance is approved and tested for, please check the **AGA/CGA rating plate** located at the interior of the appliance opening (see fig. 1) or consult your local distributor.

BEFORE YOU BEGIN:

Before beginning the installation of your appliance, read these instructions through completely. This FMI appliance and its approved components are safe when installed according to this installation manual and operated as recommended by FMI. Unless you use FMI approved components tested for this appliance, **YOU MAY CAUSE A FIRE HAZARD !**

The FMI warranty will be voided by, and FMI disclaims any responsibility for the following actions :

- A) Modification of the appliance or any of the components manufactured by FMI unless otherwise permitted in writing by FMI.
- B) The use of any components part not approved by FMI in combination with this FMI appliance.
- C) Installation and/or operation in a manner other than instructed in this manual.
- D) The burning of anything other than the type of gas approved for use in this gas appliance.

This appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the **National Electrical Code, ANSI/NFPA 70-1987** and **CSA C22.2 Canadian electrical code for Canada.** When installed in a manufactured home (**mobile home**) installation must conform with the Manufactured Home Construction and Safety Standard, **Title 24CRF, Part 3280.** or when such standard is not applicable, the Standard for Manufactured Home Installation, **ANSI A225.1/NFPA 501A.**

The installation must conform to local codes, or in the absence of local codes, with the **National Fuel Gas Code ANSI Z223.1-current, and in Canada with current installation code CAN/CGA-B149.**

This appliance complies with **ANSI Z21.44-1995** and **CAN/CGA12.19M81,IR#41** and **IR#55** as a gravity direct vent wall furnace and is listed and tested by **International Approval Services.**

NOTE: Installation and repair should be done by a qualified service person. The appliance should be inspected before use, and at least annually thereafter by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding, etc. It is imperative that the control compartments, burners, and circulating air systems be kept clean.

SELECTING LOCATION

To determine the safest and most efficient location for your appliance, consider the following guidelines:

1. The location must allow for all the proper clearances (see section on Clearances). pg. 3
2. Consider a location where the heat output would not be affected by drafts, air conditioning ducts, windows or doors.

Figure 2 shows a few common locations.

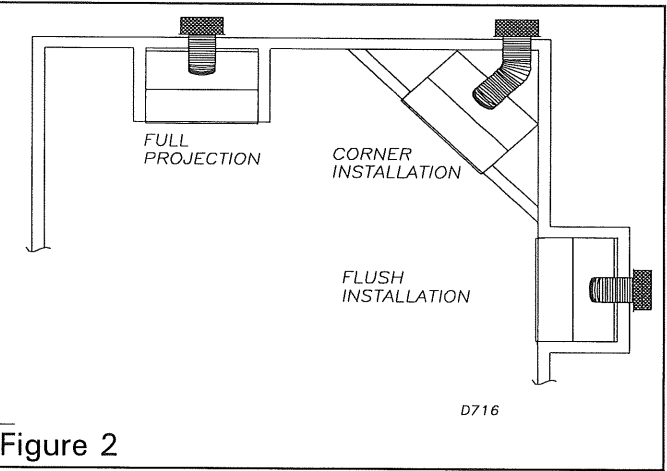


Figure 2

A **flush installation** is recommended where living space is limited or at a premium.

Projected installations can extend a **maximum of 54"** into the room as shown on figure 12, page 4. A projection may be ideal for a new addition on an existing, finished wall.

Corner installations make use of space that may not normally be used and provides a wider and more efficient range for radiant heat transference.

ALSO, IN SELECTING A LOCATION, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED;

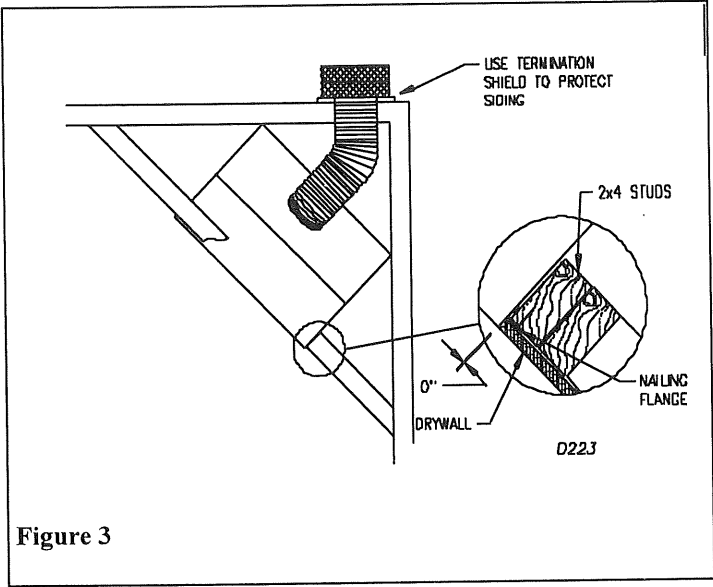
1. Do not connect this appliance to a chimney system used for a solid fuel burning fireplace.
2. Due to high temperatures, do not locate this appliance in high traffic areas or near furniture and draperies.

3. NEVER obstruct the front opening of the appliance or the flow of combustion and ventilation air. Keep control compartments accessible.
4. Do not locate close to where gasoline or other flammable liquids may be stored. The appliance area must be kept clear and free from these combustible materials.

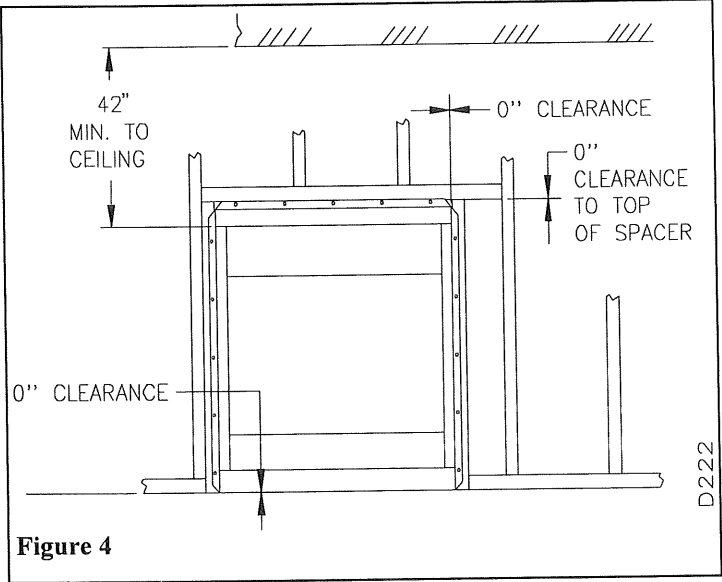
CLEARANCES

MINIMUM CLEARANCES TO COMBUSTIBLES ARE:

- * BACK AND SIDES: 0" MIN.
- * VENT SURFACES: 1" MIN.
- * CEILING TO OPENING: 42" MIN.
- * FLOOR: 0" MIN.
- * SIDEWALL (at nailing flanges): 0" MIN.
- * PERPENDICULAR: 12" MIN.

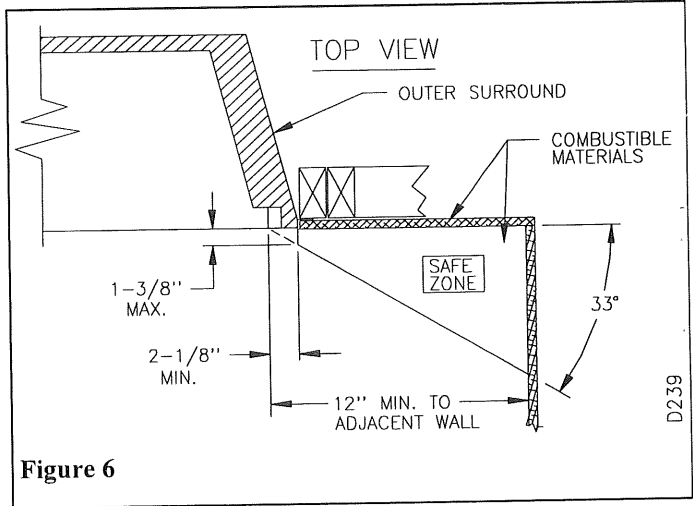
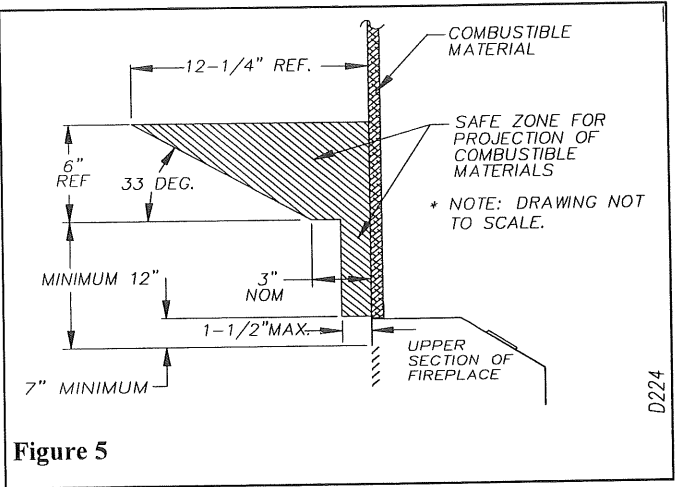


CAUTION: DO NOT BLOCK REQUIRED AIR SPACES WITH INSULATION OR ANY OTHER MATERIAL. DO NOT OBSTRUCT EFFECTIVE OPENING OF APPLIANCE WITH ANY TYPE OF FACING MATERIAL



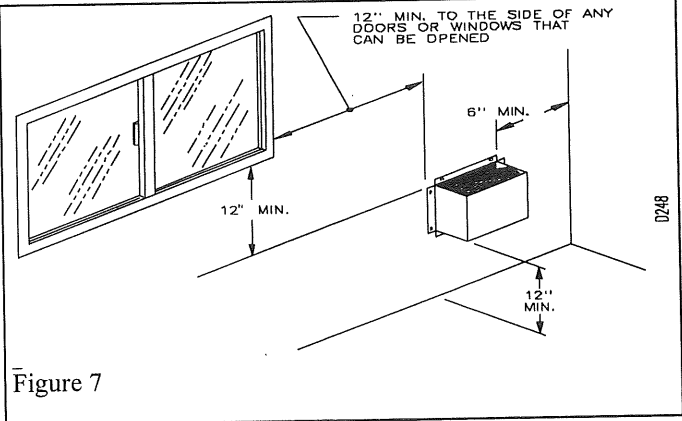
MANTLE CLEARANCES

Woodwork, such as wood trims, mantles, and other combustible materials, should not be placed within 7 inches of the opening of this appliance (Figure 5 & 6). Combustible material above projecting more than 1-1/2 inches from the appliance's front face must not be placed less than 12 inches from the opening of the appliance (ref. NFPA Standard 211 Sec. 7-3.3.3).



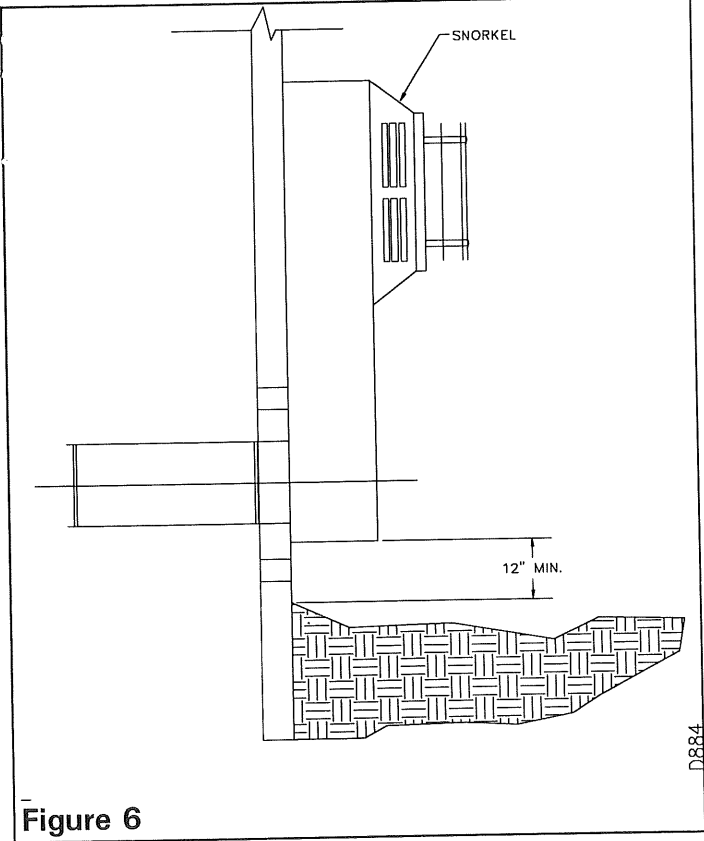
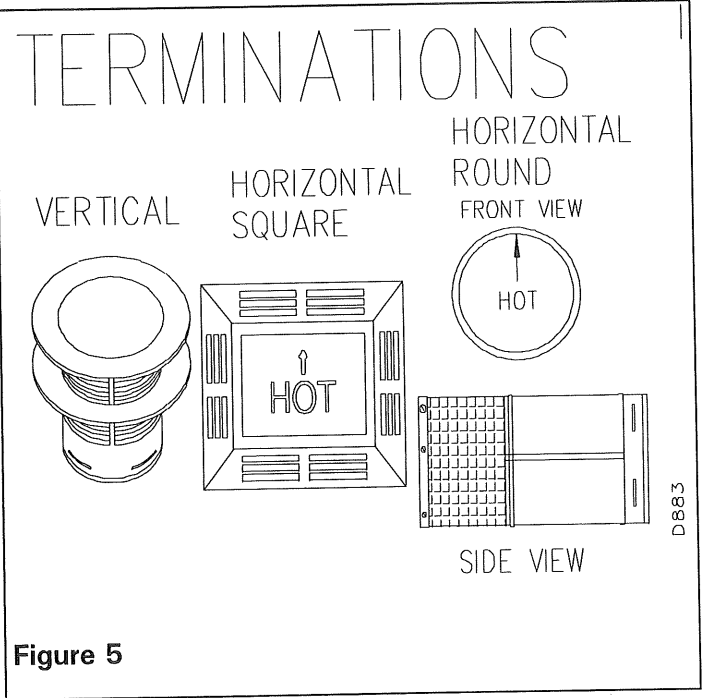
VENT TERMINATION CLEARANCES

The final position of your appliance depends on the location of the vent termination in relation to the clearances that must be observed as shown in figures 7 and 8.



For installation requiring a vertical rise on the exterior of the building. 14-inch and 36-inch tall Snorkel termination, as shown in (figure 6) are recommended and available.

NOTE: A minimum clearance of 12" must be kept for proper installation (see figure 6).



INSTALLATION INSTRUCTION FOR EXTENDED RIGID DURA-VENT PIPE

*When installing lengths of pipe over 3 feet, support the pipe every 3 feet using metal straps.

- 1) Maximum vertical installation allowed is 35 feet from the fireplace outlet.
- 2) Vertical pipe to horizontal pipe must be kept at a 1 foot to 4 feet ratio with a maximum pipe of no more than 20', See chart below.

*NOTE Maximum 90 degree elbows allowed 3.

* Maximum allowable pieces per installation for proper allowable leakage = 10.

VERTICAL		HORIZONTAL	
MIN.	1'	TO	4' MAX.
	2'	TO	8'
	3'	TO	12'
	4'	TO	16'
	5'	TO	15'
	6'	TO	14'
	7'	TO	13'
	8'	TO	12'

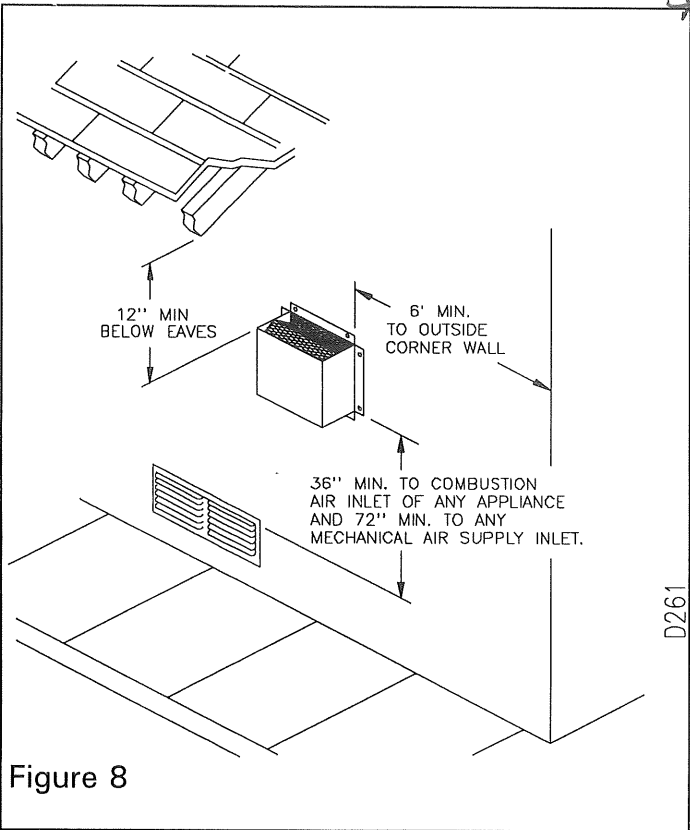
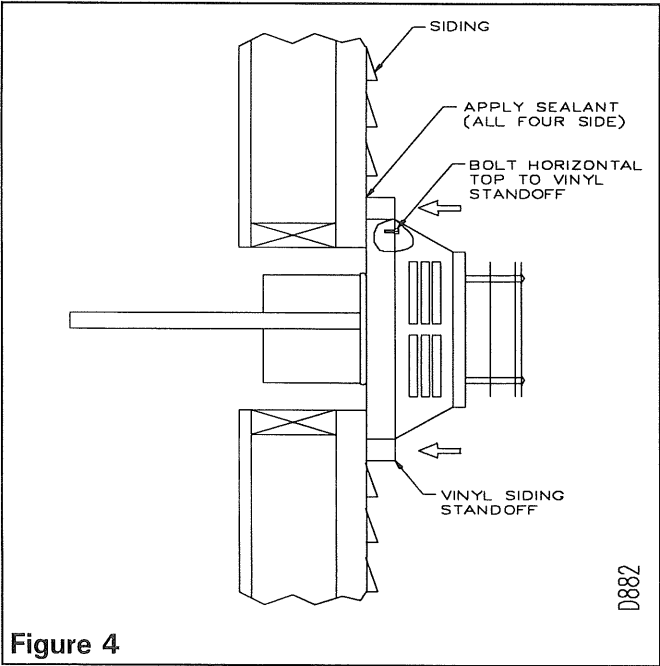
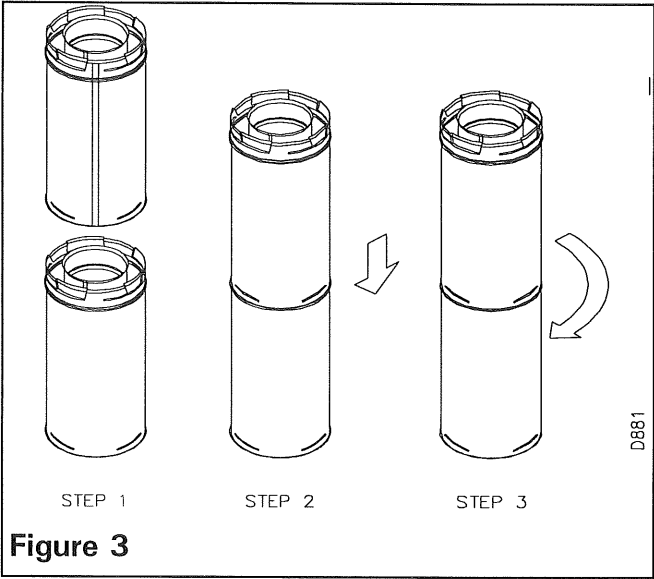
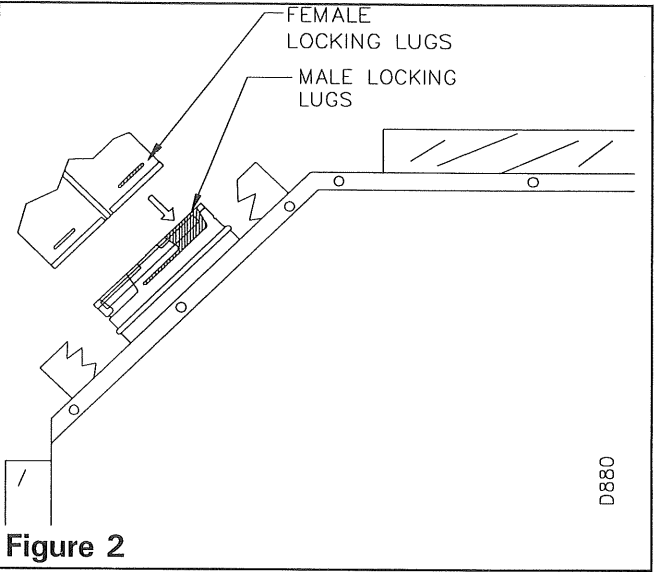
- 3) All pipe clearances must be kept with in minimum requirement or grater see figure 7.
 - 4) If an offset is necessary in the attic to avoid obstruction, it is important to support the vent pipe every 3 feet, to avoid excessive stress on the elbows, and possible separation see figure 8.
- * Whenever possible, use 45 degree elbows, instead of 90 degree elbows, the 45 degree elbows offer less restriction to the flow of flue gases and intake air.

To connect the flue vent and vent termination the following steps are recommended.

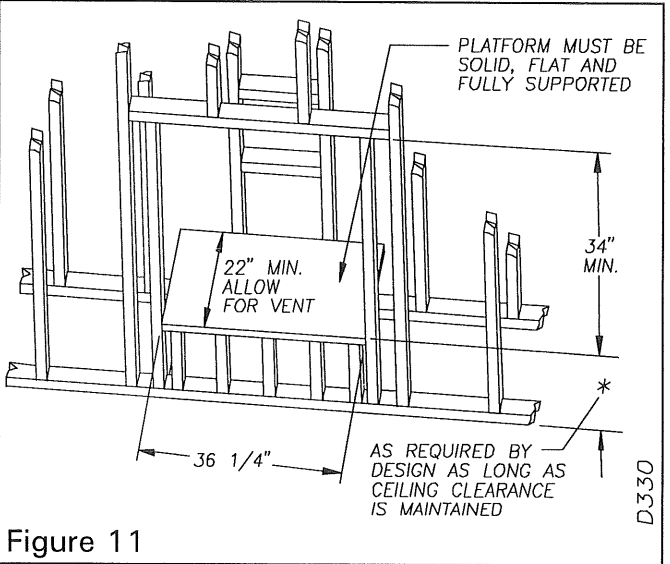
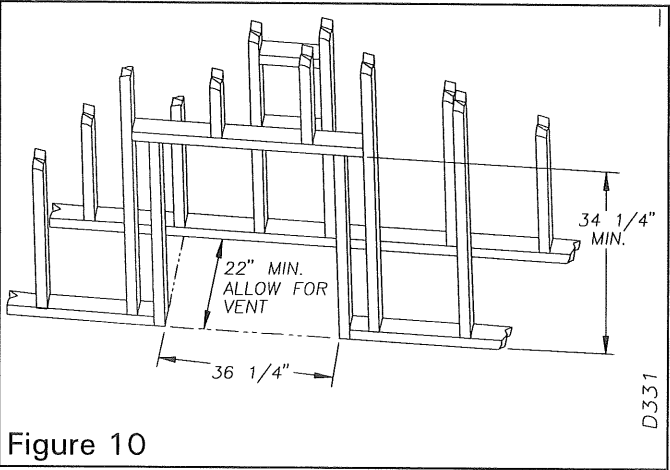
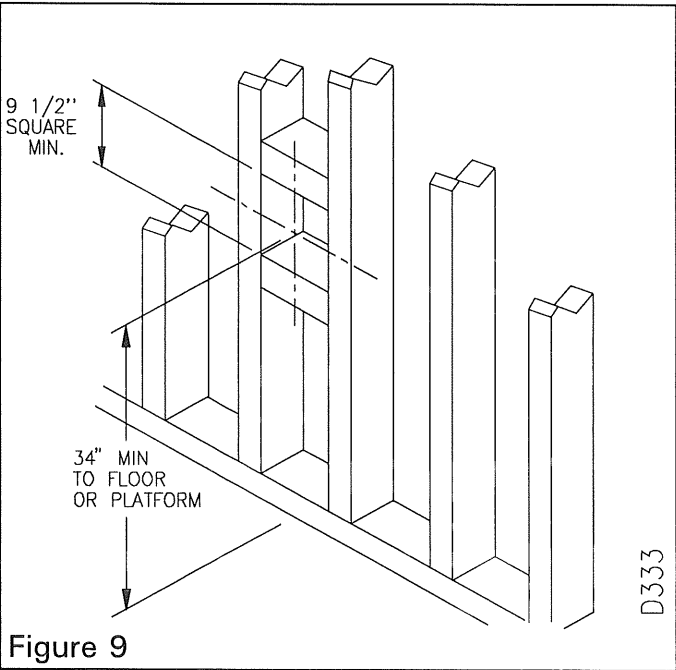
- 1) Install pipe to fireplace collar adapter located on back of the unit at a 45 degree angle. Start with 90 degree or 45 degree elbow by sliding it over the collar adapter on fireplace. Twist-lock for proper installation (see Figure 2).
- 2) Once the elbow is properly fastened to the fireplace adapter, continue to install the remainder of DV pipe for your particular installation.
- 3) Install every section of pipe making sure that all joints are properly twist-locked (see figure 3).
- 4) After steps 1,2, and 3 are completed, install the vent termination. Depending on location of termination, you may use a vertical or horizontal termination, (see Figure 4).
- 5) For a horizontal installation use the square or round termination refer to figure 5. Depending on wall thickness allow 1 inch to protrude from internal wall, as shown on (figure 4).
- 6) When vinyl siding or stucco is present, a standoff (spacer) is available. Avoid stucco on vent termination by using standoff (spacer) bolt horizontal top to standoff and then the complete assembly to wall see figure 4. The vent termination must be removable for service and pipe inspection.
- 7) For a vertical installation, use a round top termination see figure 5.

The vent system serves as the "chimney" as well as the combustion air supply (air intake). The horizontal run must be level, or have a rise of 1/4 inch every 1 feet of horizontal run towards the termination. Never allow the vent to run downward. The maximum horizontal run depends on vertical rise from fireplace adapter collars to the vent termination.

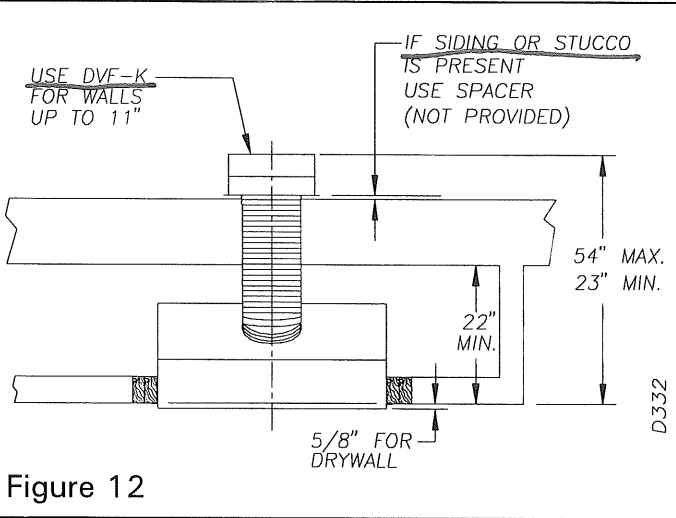
CLEARANCES FOR VENT PIPE
The vent pipe must have a minimum of 1 inch clearance to combustible material all around the entire pipe.



FRAMING
Once the final location has been determined, (observing clearances for vent termination) you may construct framing using dimensions shown in figures 9 through 14, depending on your particular installation. If the appliance is to be installed directly on carpeting, tile (other than ceramic), or any combustible material other than wood flooring, the appliance must be installed upon a metal or wood panel extending the full width and depth of the appliance.



Depending on the type of installation, refer to the appropriate illustration. On a flush or projected installation if you have a wall thickness of up to 11 inches, use termination DVF-K (see Figure 12).



On corner installation use DVF-K with a flex extension for wall of thicknesses up to 11 inches (Figure 13)

VENT TUBE/CLAMPS INSTALLATION

Flex pipe can be installed horizontally through the wall in any direction, as long as proper clearances are kept and pipe is not blocked or kinked in any way. The pipes are to fit over the outer and inner starting collars on back of unit and over outer and inner pipe of **DVF-K** termination (see **pipe instructions with DVF-K**).

NOTE: For installation with Dura-Vent pipes, refer to pages 14 through 18.

When installing flex pipe to collar, sufficient overlap must be provided for rigidity of assembly. A minimum of 1 inches is necessary to install clamps on the pipes (**see Figure 14**).

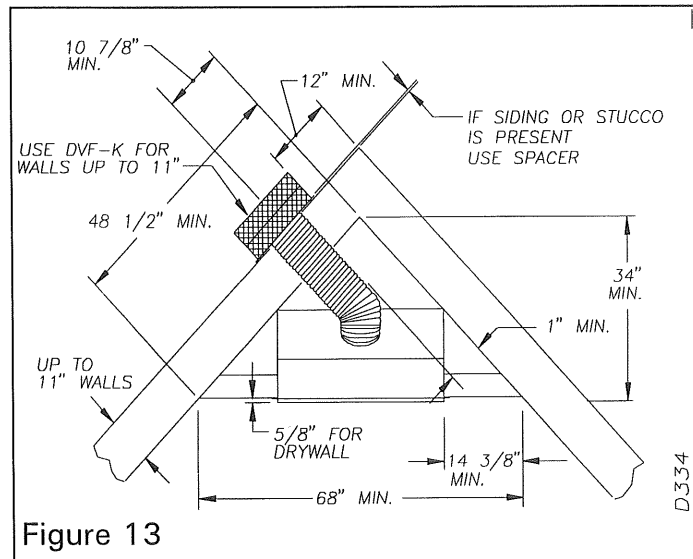


Figure 13

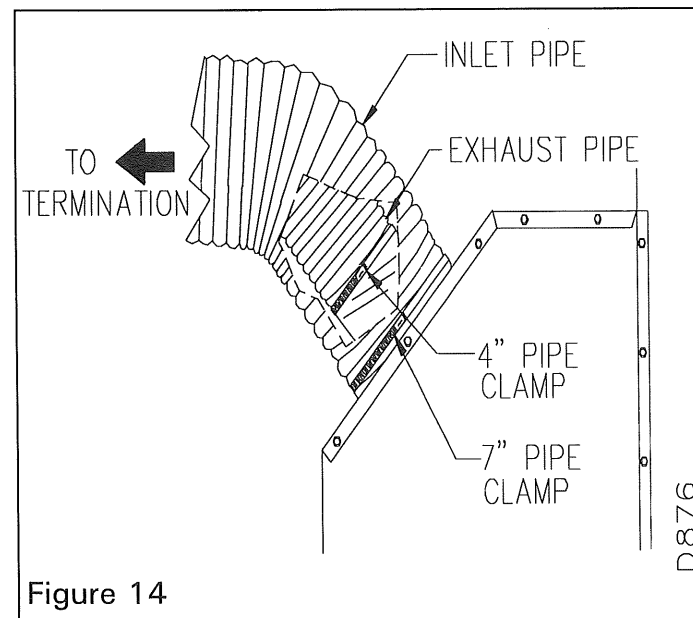


Figure 14

Proceed to secure appliance to prepared framing at nailing flanges located at the sides of the appliance as shown in **Figure 15**.

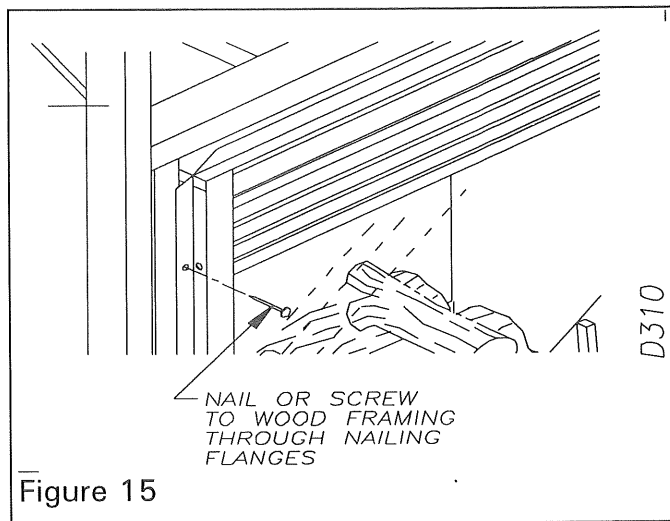


Figure 15

WALL SWITCH INSTALLATION

The installation of a **wall switch in this appliance** allows you to activate the gas control valve **without the use of normal household electricity** since the valve operates on **millivolt current** supplied by the heat generated from the sensor on the thermopile.

CAUTION:

DO NOT WIRE THIS MILLIVOLT SYSTEM WALL SWITCH TO REGULAR 120v AC WIRING

1. Remove **lower louver** from bottom frame as shown in **Figure 22**.

2. Connect the **18 GA.** wires from the gas control valve to the **WALL SWITCH** as shown in **Figure 16.** (both are supplied with the appliance).

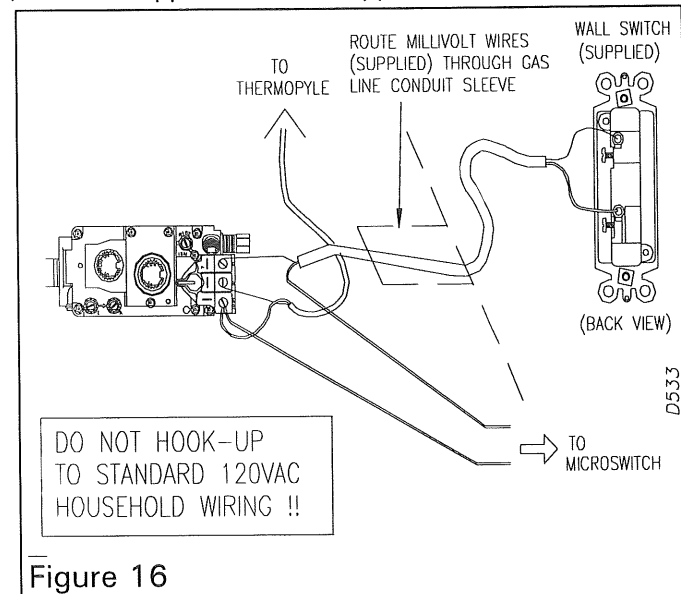
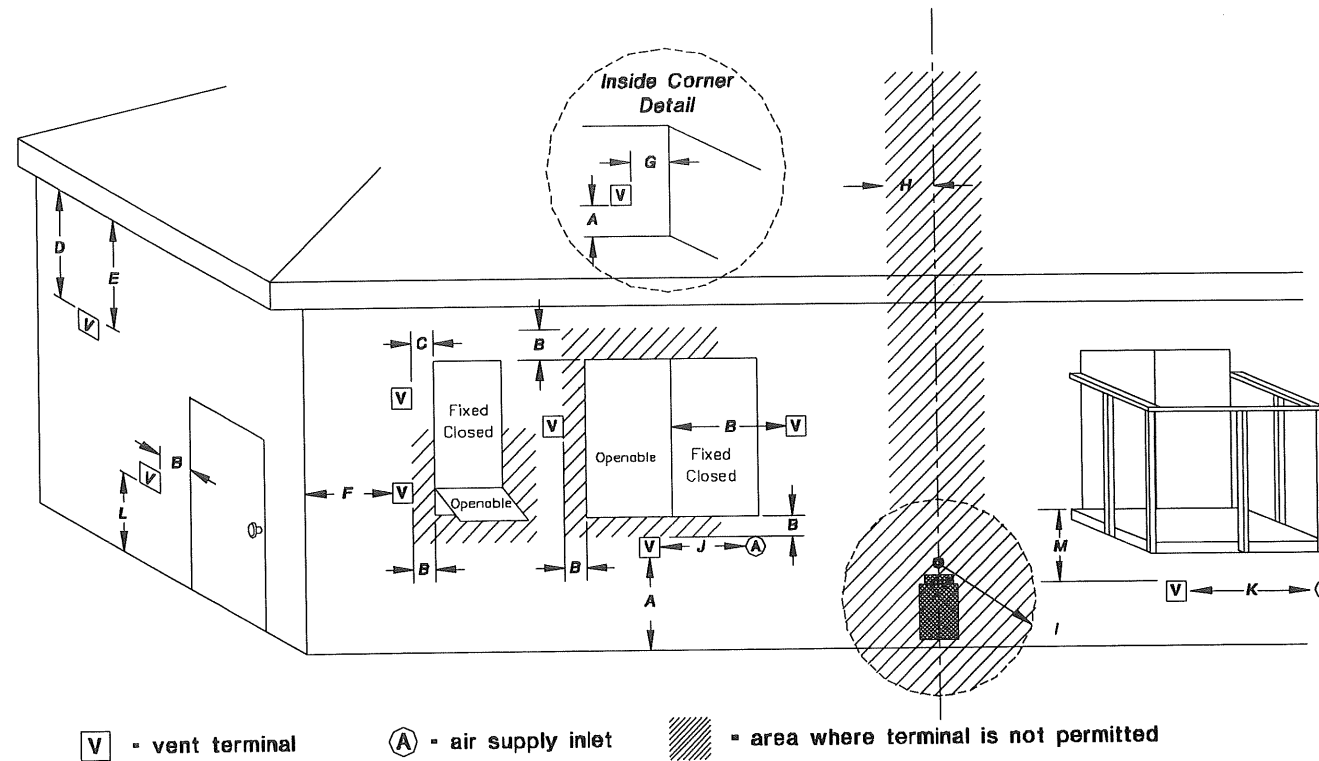


Figure 16

COMBINATION WITH SIMPSON DURA-VENT RIGID DV PIPE

VENT PIPE & TERMINATION CLEARANCES & INSTRUCTIONS

The final position of your appliance depends on the location of the termination in relation to the clearances that must be observed as shown in **Figure 1**.



- | | |
|--|---|
| A = 12" clearance above grade, veranda, porch, deck, or balcony. | H = * not to be installed above a meter/regulator within 3 feet (90 cm) horizontally from the centre-line of the regulator. |
| B = 12" clearance to window or door that may be opened. | I = 72" clearance to service regulator vent outlet. |
| C = 12" clearance to permanently closed window or door that may be opened. | J = 12" clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance. |
| D = 18" vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60cm) from the centre-line of the terminal. | K = 36" clearance to a mechanical air supply inlet. |
| E = 12" clearance below eaves. | L = 84" \neq clearance above paved side-walk or a paved driveway located on public property. |
| F = 12" clearance to outside corner. | M = 12" \neq clearance under veranda, porch, deck or balcony. |
| G = 12" clearance to inside corner. | |

7 A vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and services both dwellings. *

* Only permitted if veranda, porch, deck, or balcony, is fully open on a minimum of 2 sides beneath the floor.

* As specified in CGA-B149 installation codes (1991) NOTE: Local codes or regulations may require different clearances.

Figure 1

Use only pipe that is supplied with the appliance. Maintain minimum clearances or greater. Do not fill air space with insulation or other materials.

TROUBLESHOOTING GUIDE
FOR DVF36/T/P/TP VENTED DECORATIVE GAS APPLIANCE

NOTE : BEFORE TROUBLESHOOTING THE SYSTEM, MAKE SURE THE GAS SHUT-OFF VALVE IS **ON**.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. CANNOT LIGHT PILOT	1a. NO GAS SUPPLY, OR SHUT-OFF VALVE IS OFF. 1b. AIR IN GAS LINE. 1c. CONSTRUCTION DEBRIS CLOGGING PILOT ORIFICE. 1d. LOW GAS PRESSURE. 1e. CONTROL VALVE KNOB IS NOT ON THE "PILOT" POSITION. 1f. KINKED PILOT LINE 1g. BAD VALVE. 1h. BAD THERMOCOUPLE OR LOOSE CONNECTION.	A. CHECK TO SEE IF YOU HAVE GAS SUPPLY. B. HOLD REGULATOR CONTROL VALVE IN THE "PILOT" POSITION FOR 2 OR 3 MINUTES TO PURGE AIR. IF YOU SMELL GAS STOP AND WAIT FOR A FEW MINUTES BEFORE TRYING TO LIGHT THE FIREPLACE. C. REMOVE DEBRIS AND DIRT, INSPECT AND CLEAN ANY OTHER POSSIBLE OBSTRUCTIONS. D. CONTACT YOUR GAS SUPPLIER. E. REFER TO SECTION ON PILOT LIGHTING. F. HAVE A QUALIFIED TECHNICIAN REPLACE PILOT LINE. G. REPLACE REGULATOR VALVE (REFER TO REPLACEMENT PARTS LIST). H. TIGHTEN THERMOCOUPLE, OR REPLACE.
2. NO GAS TO BURNER, ALTHOUGH WALL SWITCH AND VALVE ARE SET TO THE "ON" POSITION.	2a. WALL SWITCH WIRES DEFECTIVE.	A. CHECK ELECTRICAL CONNECTIONS.
3. FREQUENT PILOT OUTAGE.	3a. PILOT FLAME MAY BE TOO LOW, CAUSING SAFETY PILOT TO "DROP OUT".	A. CLEAN AND ADJUST PILOT FLAME FOR MAXIMUM FLAME IMPINGEMENT ON THERMOCOUPLE.

NOTE: If any of the original wire as supplied must be replaced, use type 18 AWG-105 deg. C (25 ft. length MAXIMUM) or equivalent.

GAS SUPPLY TESTING

NOTE: This section is intended as a guide for qualified technicians installing gas to the appliance.

DO NOT CONNECT APPLIANCE BEFORE PRESSURE TESTING GAS PIPING. DAMAGE TO GAS VALVE MAY RESULT AND AN UNSAFE CONDITION MAY BE CAUSED.

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

GAS RATINGS

TYPE OF GAS:	NATURAL	L.P. (PROPANE)
MAX. INPUT	25,000 Btu/hr.	21,000 Btu/hr.
MIN. INPUT	20,000 Btu/hr.	17,000 Btu/hr.
MANIFOLD PRESSURE:	3.5 in W.C.	10.0 in W.C.
*MIN. SUPPLY PRESSURE:	4.5 in W.C.	11.0 in W.C.

* For the purpose of input adjustment.

The GAS CONTROL VALVE is secured underneath the firebox with two brackets fastened to the rear left leg and firebox bottom. **Two hose connectors are provided on the gas control valve for a pressure test gauge connection (see Figure 17).**

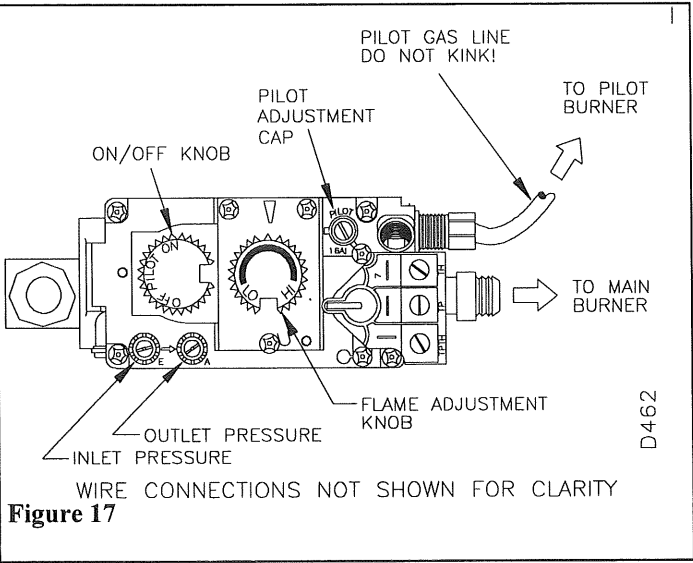


Figure 17

GAS LINE HOOK-UP

GAS LINE HOOK-UP SHOULD BE DONE BY YOUR GAS SUPPLIER OR QUALIFIED SERVICE PERSON.

NOTE: BEFORE YOU PROCEED, MAKE SURE YOUR GAS SUPPLY IS **OFF!!**

A **MANUAL SHUT-OFF VALVE** has been included in the appliance's gas supply system. You may consider installing an extra gas shut-off valve outside the appliance's enclosure (check with local codes) where it can be accessed more conveniently with a key through a wall as shown in **Figure 18**

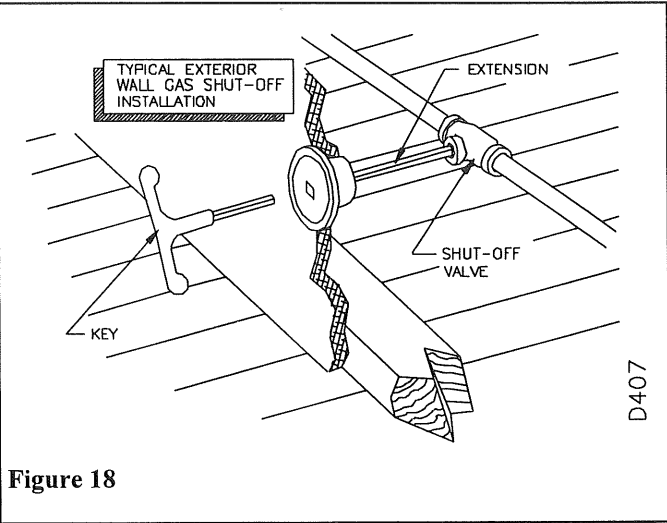


Figure 18

In conformance with local codes, route a **1/2" NPT GAS LINE** towards the appliance coming in from the right. If you wish to route your incoming gas line coming in from the left, remove the gas line **conduit sleeve** on the right side of the appliance and place it on the left side, (see **Figure 19**).

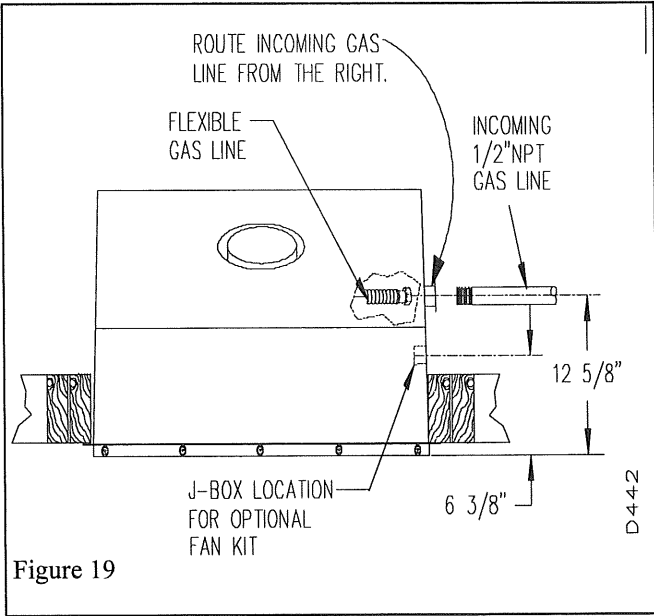


Figure 19

CAUTION: DO NOT KINK FLEXIBLE GAS LINE !!

1) Install a **sediment trap** between the incoming gas line and the gas control valve (see **Figure 20**). The sediment trap should extend down a minimum of **3 inches** beyond the center of the pipe.

2) When routing gas line through conduit sleeve, make sure to replace insulation to fill gaps between gas line and conduit sleeve.

Compounds used on threaded joints of gas piping shall be resistant to the action of propane or natural gas, and should be applied lightly to ensure excess sealant does not enter the gas line.

Complete your gas line installation by connecting incoming gas line with flexible gas line. Secure tightly with a wrench, but do not over-tighten.

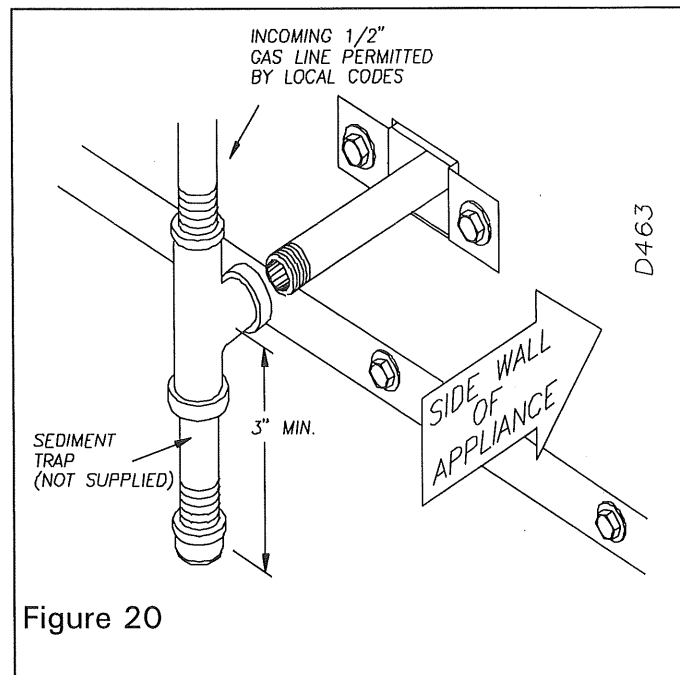


Figure 20

CAUTION: All gas piping and connections must be tested for leaks after the installation is completed. After ensuring that the gas valve is on, apply a soap and water solution to all connections and joints. If bubbles appear, leaks can be detected and corrected. **DO NOT USE AN OPEN FLAME FOR LEAK TESTING AND DO NOT OPERATE ANY APPLIANCE IF A LEAK IS DETECTED.**

PILOT ASSEMBLY ADJUSTMENTS

The pilot assembly is **factory preset** for the proper flame height. Alterations to these fittings may have occurred during shipping and handling. If this is the case, some minor readjustments may be necessary and **SHOULD BE DONE BY A QUALIFIED TECHNICIAN**.

To access the pilot assembly, glass door must be open (see section on "Glass Panel Removal"). The proper settings for the thermopile height should be at a distance of **3/8" to 1/2"** from the pilot flame as shown in **Figure 21**.

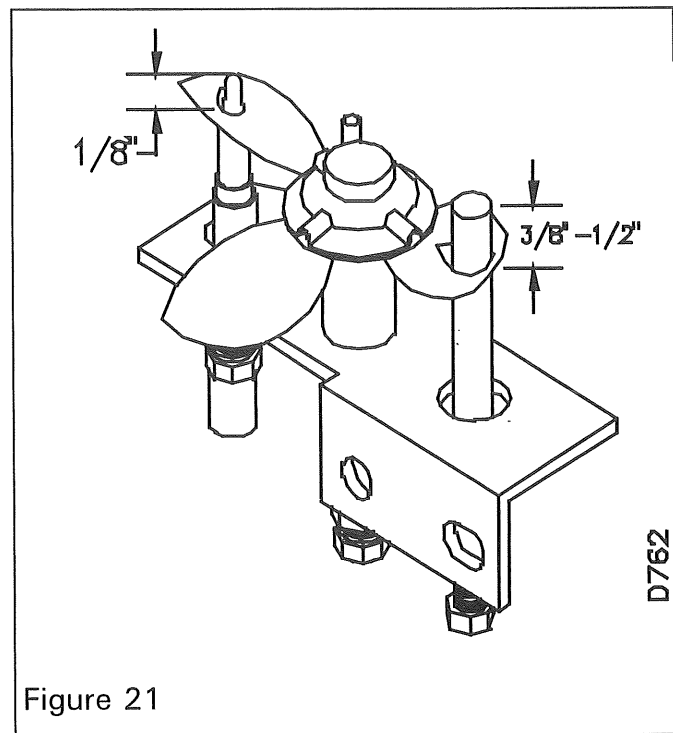


Figure 21

GLASS PANEL REMOVAL & LOG SET INSTALLATION.

Before proceeding, make sure **gas control valve** is in the **"OFF"** position. Logs have been packaged separately to prevent breakage during shipping.

1. To remove louvers, pull both top end spring latches towards the center of appliance simultaneously until they are disengaged from locating holes. Repeat for bottom end spring latches and pull louver outward. Reverse procedure to install louvers back onto the appliance. (Refer to **Figure 22**).

2. Remove screen rod, if installed, by removing rod loop from glass door center bracket. Then slide the screen rod either to the left or to the right of the fireplace until one of the rod ends is free to completely remove the screen from the fireplace.

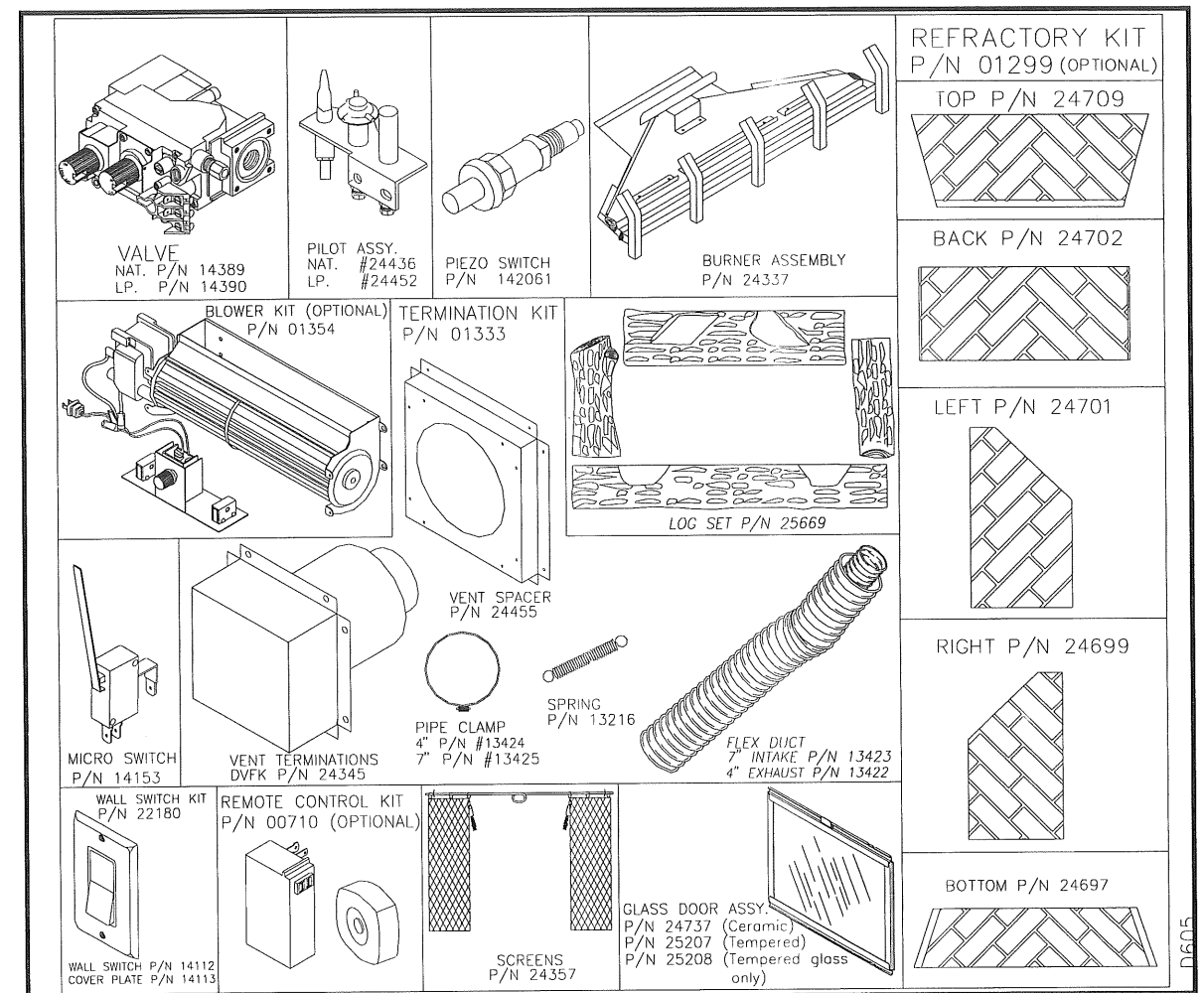
3. To open the glass door, undo the latches located on the top and bottom side of the firebox, (see **Figure 23**). Then carefully swing the door to the left. The glass door is securely mounted to the firebox by means of six screws.

4. Carefully place the log set as shown in **Figure 24**. Be careful not to alter the pilot or burner location.

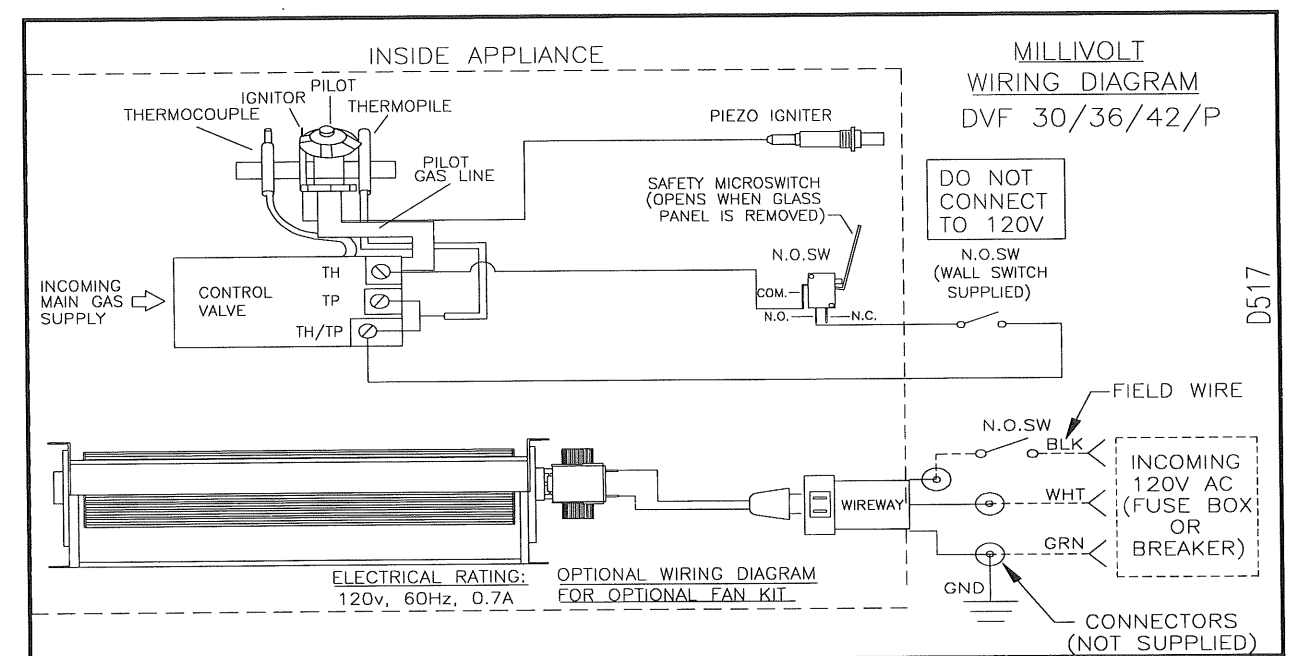
5. Next, remove the ceramic fiber embers from the bag and place small pieces on top of burner ember tray located on the very front of burner with grate. Avoid blocking burner ports when placing embers.

6. When closing the glass door, make certain the safety door switch is fully depressed by the door. Replace items removed in the reverse order.

REPLACEMENT/ACCESSORY PARTS



WIRING DIAGRAM



REPLACEMENT AND ACCESSORY PARTS

Log set: Front/rear, and top logs come standard with all units.

Pilot Assembly: If in need of replacing, have a qualified technician replace it.

Gas Control Valve: If in need of replacing, have a qualified technician replace it.

Wall Switch: The wall switch, cover plate, and millivolt wires come standard with this appliance, if a fan kit is installed, make sure to purchase an extra wall switch (refer to Wiring Diagram).

Fan Kit: The fan kit is optional and may be installed at any time. Installation instructions are included with the fan kit.

Ceramic Fiber Embers: This ember material will provide a warm red glow and 'licks' of flame when operating the gas log set.

- * When ordering replacement or accessory items, please have your appliance's model and serial number ready.
- * The model and serial number for your particular appliance may be found on the rating plate located inside the appliance (see Figure 1).
- * Refer to the parts list and diagrams when ordering replacement parts for your appliance.

- * Repair parts or accessory items may be bought from your distributor/dealer.
- * All product specifications are subject to change without notice.

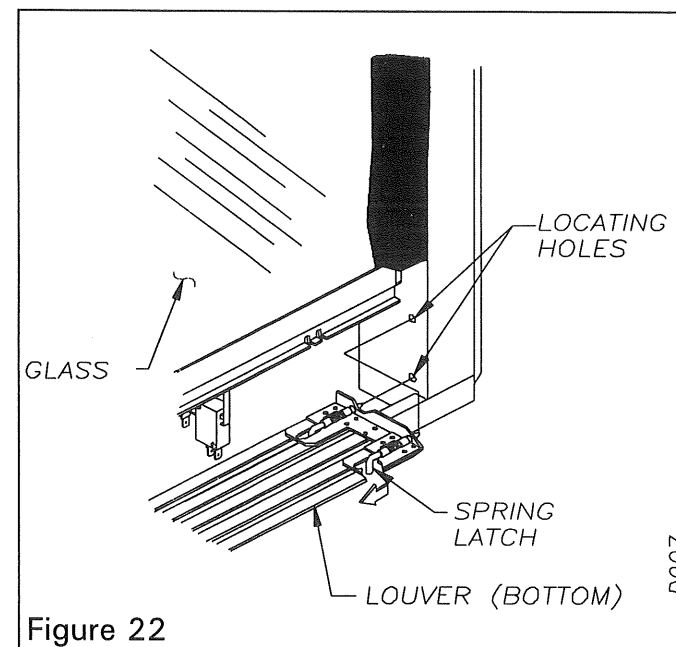


Figure 22

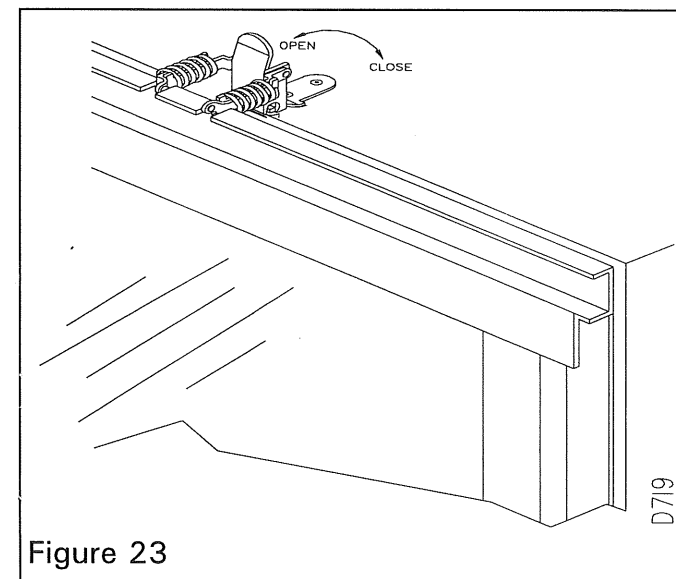


Figure 23

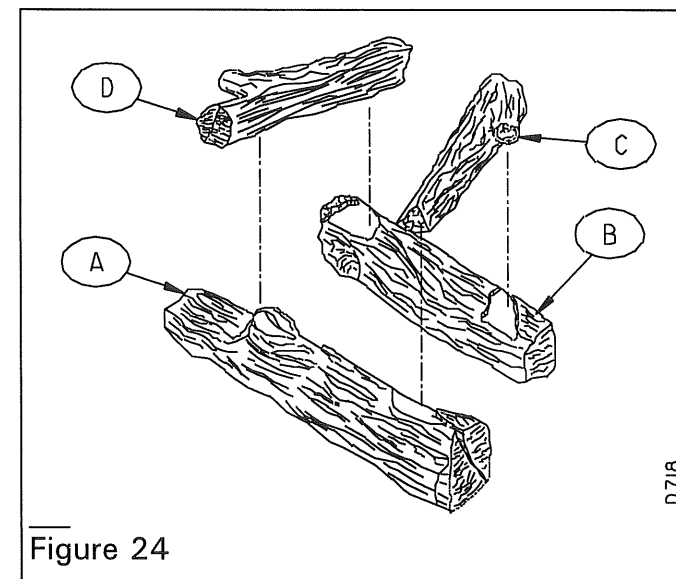


Figure 24

CAUTION: THE LOGS CAN GET VERY HOT-HANDLE ONLY WHEN COOL!!

TEMPERED GLASS DOOR REMOVAL OR REPLACEMENT

When tempered glass is installed with your unit, and cleaning or replacement is necessary, refer to the following steps.

NOTE: Before proceeding make sure unit is completely cool.

1. Remove top and bottom louvers and screen assembly. Undo latches (refer to page 7).

REPLACING GLASS DOOR

2. If replacement of the entire assembly (frame and glass assembly) is required, **carefully** remove six (6) screws located on the left side of the firebox while holding frame assembly to prevent it from falling and causing injury.

CLEANING GLASS DOOR

3. Remove glass assembly retainer bracket by removing two screw nuts located at the top of the glass door frame (see Figure 25). Carefully lean glass away from the frame and remove for cleaning or replacement. When cleaning the glass, **DO NOT** remove the gasket.

4. To install or replace items removed, simply reverse procedures.

NOTE: IF GLASS IS NOT FULLY SEATED ON BOTTOM RETAINER AND SWITCH (LOCATED AT THE RIGHT HAND SIDE NEAR THE EDGE) MAIN BURNER WILL NOT LIGHT.

Any household glass cleaner may be used to clean the glass panel. Do not use abrasive cleaners as this may damage the glass. **DO NOT CLEAN GLASS WHEN HOT!.**

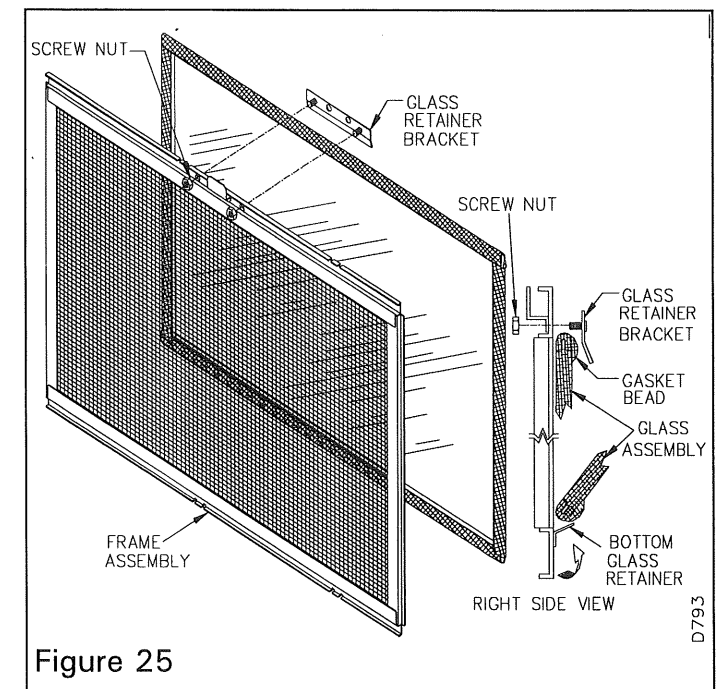


Figure 25

WARNING! Do not strike, slam or otherwise abuse glass door.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER.

BURNER FLAME ADJUSTMENT

The air shutter, located at the base of the main burner has been factory preset to the proper air-to-gas-ratio which results in an even, clean burning flame across the burner (see Figure 26)

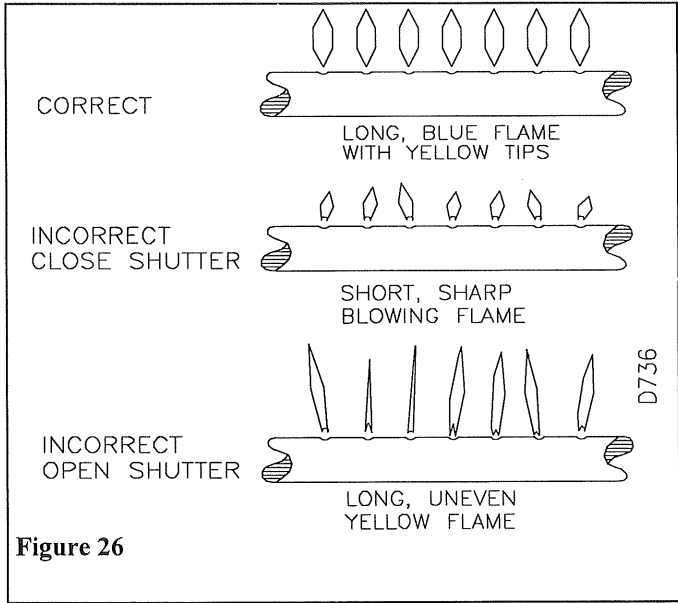


Figure 26

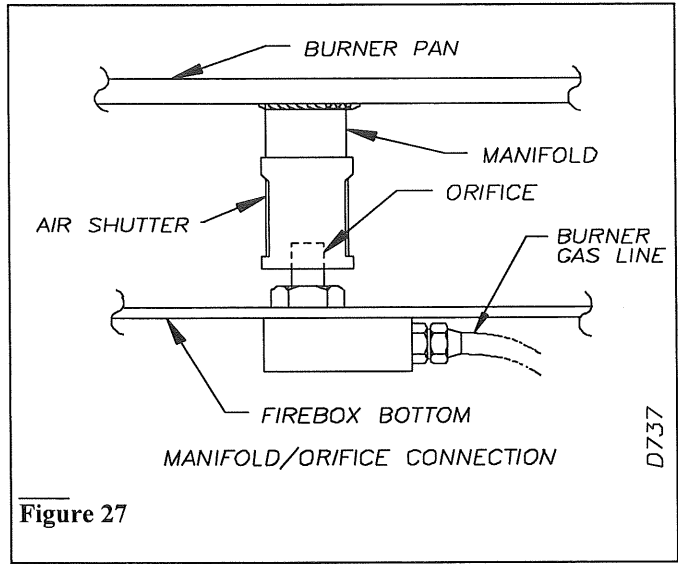


Figure 27

If readjustment is necessary, you can restore the proper flame setting by loosening the air shutter screw and rotating the air shutter until proper flame setting is achieved. Don't forget to retighten screw. (see Figure 27)

DECORATIVE FACING

Any non-combustible material may be used for facing (glass, tile, brick, etc.) as long as the proper clearances are observed (refer to section on clearances). Louvered openings must not be obstructed and upper and lower panels must remain removable for servicing.
Use only heat-resistant, non-combustible mortar or adhesive when securing facing material.

OPERATING GUIDELINES AND MAINTENANCE INSTRUCTIONS

When lit for the first time, the appliance may emit a slight odor for about 16 to 24 hours. This is normal and is due to the "curing" of the logs and the "burn-in" of internal paints and lubricants used in the manufacturing process.
Keep compartments, logs, burners, and area surrounding the logs clean by vacuuming or brushing at least twice a year. Temporary removal of the log set may ease the cleaning of the burner and pilot assembly. In cleaning, take care not to alter the pilot or burner location.

THE LOGS CAN GET VERY HOT!! HANDLE ONLY WHEN COOL.

IMPORTANT:
Turn off gas and remote wall switch before servicing appliance. Any safety screen or guard removed for servicing the appliance must be replaced prior to operating the appliance.

Have a qualified agency periodically inspect the vent system at the start of each heating season for any obstructions which may hinder its normal operation. Never obstruct the flow of combustion and ventilation air; keep the front of the appliance clear of all obstacles and materials.

WARNING: Children and adults should be alerted to the hazards of high surface temperatures and to stay away from these to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

Do not operate appliance with louvers, smooth panels removed, cracked or broken glass.

FOR FURTHER OPERATING GUIDELINES, CONTACT YOUR AUTHORIZED REPRESENTATIVE.

MILLIVOLT SYSTEM

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

- A. When lighting the pilot, follow these instructions exactly.

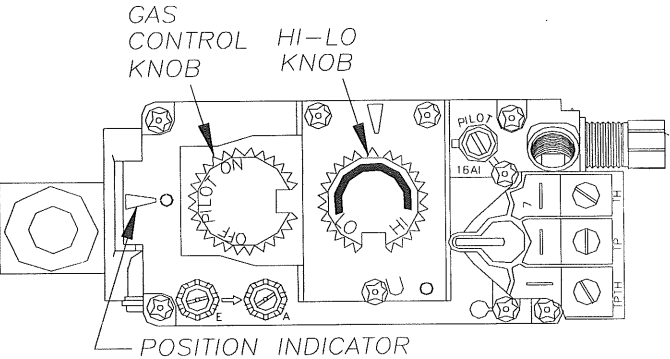
B. BEFORE turning "ON", smell around the appliance for gas. Be sure to smell next to the floor, for some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

 - * Do not try to light any appliance.
 - * Do not touch any electrical switch; do not use any phone in the building.
 - * Immediately call your gas supplier from a neighbor's phone. follow the supplier's instructions.
- * If you cannot reach your supplier, call the fire department.
 - C. Use only your hands to push in control knob. never use tools. If the knob will not push in or slide by hand, don't try to repair it. Call a qualified service technician. Forced or attempted repair may result in a fire or explosion.
 - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any gas control which has been submersed.

LIGHTING INSTRUCTIONS

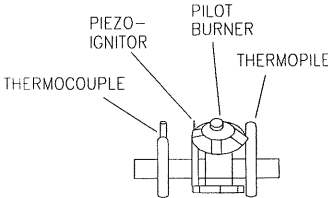
1. STOP! Read the safety information above on this label before proceeding.
2. Set the "HI-LO" knob to the lowest setting.
3. Turn off all electrical power to the appliance.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise to "OFF".



NOTE: It is recommended that you maintain the gas control knob in the full "OFF" position during lengthy periods of seasonal non-usage.

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.

7. The pilot is located by the main burner..



8. Turn knob on gas control counterclockwise to "PILOT"
9. Push in the control knob all the way and hold in. Immediately light the pilot by pressing the red ignitor button until a flame appears. Continue to hold the control knob in for about (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.
- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
10. Turn gas control knob counterclockwise to "ON". Knob can be turned to "ON" only if the control knob is popped out.
11. Set "HI-LO" knob to desired setting.
12. Turn on all electric power to the appliance.

TO TURN OFF GAS TO APPLIANCE

1. Turn off the wall switch.
2. Turn off all electric power to the appliance if service is to be performed.
3. Remove control access panel.
4. Push in gas control knob slightly and turn clockwise to "OFF" Do not force.
5. Replace control access panel.